REPORT

SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT MARCH 2016 EVENT

Trail Ridge Landfill

5110 U.S. Highway 301

Duval County, Baldwin, Florida 32234

WACS Facility ID 33628

FDEP Permit Number 0013493-025-SO-01

Submitted To: Florida Department of Environmental Protection
Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, FL 32256-7590

Florida Department of Environmental Protection
Solid Waste Section
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April 15, 2016 1302576-02

Mr. Brian Durden
Florida Department of Environmental Protection
Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, FL 32256-7590

RE: SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT FOR THE MARCH 2016 MONITORING EVENT TRAIL RIDGE LANDFILL, DUVAL COUNTY, FLORIDA PERMIT NO. 0013493-025-SO-01

Dear Mr. Durden:

Golder Associates Inc. (Golder) has prepared this report summarizing the March 2016 semi-annual detection monitoring event for the Trail Ridge Landfill owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc. (a Waste Management Company) under Florida Department of Environmental Protection Permit Number 0013493-025-SO-01 and WACS Facility ID Number 33628. This semi-annual report is submitted in accordance with monitoring and reporting requirements of Chapters 62-160, 62-520, and 62-701 of the Florida Administrative Code (F.A.C.) and the Facility Permit. If you have any questions regarding this report please contact the undersigned at (770) 496-1893.

Sincerely,

GOLDER ASSOCIATES INC.

Lizmarie Steel, EIT
Staff Environmental Engineer

Robert M. Wojcik, PG
Associate and Senior Consultant

cc: Trail Ridge Landfill
Eric Parker, Waste Management of Florida
Rachel P. Kirkman, Golder Associates (electronic)
Seth Ramaley, Waste Management (electronic)

LS/RMW/sdp

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1.0 INTRODUCTION

The Trail Ridge Landfill (Site) is owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc. (a Waste Management Company) in accordance with Florida Department of Environmental Protection (FDEP) Operation Permit Number 0013493-025-SO-01 issued June 16, 2014. The Site is an active municipal solid waste landfill that serves the City of Jacksonville, Duval County, and Northeast Florida.

Golder Associates Inc. (Golder) has been retained to report the results of semi-annual groundwater and surface water monitoring at the Site in accordance with the Water Quality Monitoring Plan (Appendix 3) of the referenced permit. This report presents the methods and findings of the first 2016 semi-annual groundwater and surface water monitoring event conducted on March 1through March 3, 2016. The following sections include general information concerning the Site history and setting, an evaluation of surficial aquifer groundwater flow, and groundwater and surface water quality conditions at the Site. Laboratory analytical data are summarized, evaluated, and compared to historical data where appropriate.

2.0 BACKGROUND

2.1 Site Location and Description

The Site is located in the town of Baldwin approximately five miles southwest of the intersection of US-301 and I-10 in southwestern Duval County along the border with Baker County, Florida (Figure 1). The Facility is an active municipal solid waste landfill with a disposal area of approximately 144 acres that accepts waste from the City of Jacksonville and Duval County. The Facility operates a waste tire processing facility and active gas collection system, and the Facility design includes wetland mitigation, a stormwater management system, and environmental monitoring systems for groundwater, surface water, and methane gas.

2.2 Groundwater and Surface Water Monitoring Systems

Groundwater and surface water monitoring events are conducted concurrently on a semi-annual basis prior to March 30th and September 30th of each year. Figure 2 shows the Site layout and groundwater monitoring well and surface water sampling locations. The current Site groundwater monitoring system consists of twenty-two (22) groundwater monitoring wells screened at shallow (S) and intermediate (I) depths within the uppermost, surficial aquifer. These include:

- Thirteen (13) shallow wells: MWB-2(S), MWB-3(S), MWB-11(S), MWB-12(S), MWB-13(S), MWB-20(S), MWB-21(S), MWB-22(S), MWB-27(S), MWB-29(S), MWB-32(S), MWB-33(S), MWB-34(S)
- Nine (9) intermediate wells: MWB-2(I), MWB-3(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-27(I), MWB-29(I), MWB-32(I), MWB-34(I)

In addition, the following wells installed within the surficial aquifer are used to monitor groundwater levels at the Site:

- One (1) shallow well: MWB-7(S)
- One (1) intermediate well: MWB-7(I)
- Seven (7) deep wells: MWB-7(D), MWB-12(D), MWB-27(D), MWB-29(D), MWB-31(D), MWB-32(D), and MWB-34(D)

Background wells MWB-2(S), MWB-3(S), MWB-2(I), and MWB-3(I) demonstrate background water quality for the facility due to their location upgradient from landfill waste. The remaining shallow and intermediate wells listed above are utilized for compliance or detection monitoring purposes associated with various phases of landfill development.

As indicated in the Site Permit, MWB-14(S), MWB-14(I), MWB-14(D), MWB-23(S), MWB-24(S), MWB-25(S), MWB-25(I), MWB-25(D), and MWB-26(S) are maintained but are not currently utilized for routine monitoring. The Site surface water monitoring system consists of two surface water monitoring locations: SW-1 and SW-3 (Figure 1).

3.0 DATA COLLECTION METHODS

3.1 Groundwater Elevation Measurements

ProTech field personnel measured water levels in Site monitoring wells on March 1, 2016 prior to purging and sampling activities in accordance with procedures described in the facility permit. Water levels were measured at active groundwater monitoring wells at the Site within a 24-hour period to evaluate static groundwater conditions across the entire Site. Field personnel opened the monitoring wells to allow groundwater levels to equilibrate to atmospheric conditions, and then measured the depth to groundwater to within 0.01 feet relative to the top of the inner PVC well casing using an electronic water level indicator. Golder calculated water table elevations at each well to evaluate the general direction of groundwater flow in the uppermost aquifer underlying the Site. The calculations were performed by taking the difference between the measured depth to groundwater and the top of casing elevation surveyed for each well. Table 1 provides a summary of groundwater elevation data collected during the March 2016 monitoring event.

3.2 Sample Collection and Analysis

Groundwater and surface water sampling was conducted in accordance with F.A.C. Chapter 62-160 and FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01). ProTech field personnel collected groundwater samples for laboratory analysis from the twenty-two monitoring wells listed in Section 2.2 between March 1 through 3, 2016. Groundwater monitoring wells were purged with dedicated QED bladder pumps with Teflon-lined tubing extending to the top of the well casing. Wells were purged using low-flow sampling methods; a minimum of one well volume was purged prior to stabilization for wells where the water table is located within the well screen. Field parameters including static water level, pH, specific conductance, temperature, turbidity, dissolved oxygen, oxidation-reduction potential and color/sheen (by observation) were recorded during purging and prior to sampling. Once purging was complete, ProTech field personnel collected groundwater samples from the dedicated pumps and tubing in laboratory-provided containers, and placed the samples in coolers with ice. On March 3, 2016, surface water samples were collected from two surface water monitoring points using a laboratory-provided container. Instrument calibration records (FD 9000-8) are included in Appendix A, and completed groundwater sampling logs (FD 9000-24) are provided along with the laboratory report in Appendix B.

TestAmerica –Savannah (TestAmerica), a Florida-certified laboratory (NELAP certification ID E87052), analyzed groundwater and surface water samples collected in March 2016 for the parameters identified in Section II and Section III, respectively, of the facility permit Water Quality Monitoring Plan.

4.0 GROUNDWATER FLOW RATE AND DIRECTION EVALUATION

4.1 Groundwater Elevations and Flow Direction

Golder calculated groundwater elevations based on water levels measured on March 1, 2016, and top of well casing elevations surveyed relative to the National Geodetic Vertical Datum (NGVD) (Table 1). Figures 3, 4, and 5 show shallow, intermediate, and deep potentiometric contours for the surficial aquifer, respectively. Groundwater flow beneath the Site in the uppermost aquifer is to the east at shallow, intermediate, and deep depths. The direction of groundwater flow is consistent with measurements from previous monitoring events.

4.2 Horizontal Hydraulic Gradients

Input parameters and hydraulic gradient calculations for the March 2016 monitoring event shallow, intermediate, and deep wells within the surficial aquifer are shown in Appendix C. The shallow average horizontal hydraulic gradient was calculated between the 140-foot potentiometric contour and MWB-22(S); the intermediate average horizontal hydraulic gradient was calculated between the 135-foot potentiometric contour and MWB-12(I); and the deep average horizontal hydraulic gradient was calculated between the 130' contour and MWB-12 (D). Gradients were calculated along a flow path oriented perpendicular to the potentiometric contours. The average Site hydraulic gradient, calculated as the mean of the shallow, intermediate, and deep hydraulic gradients is 0.010 ft/ft. The results are generally consistent with historical gradient values for the Site.

5.0 WATER QUALITY MONITORING RESULTS

5.1 Quality Assurance and Quality Control (QA/QC) Results

ProTech field personnel collected two field blanks during the March 2016 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound (VOC) samples to TestAmerica for analysis. The samples were received in good condition, properly preserved, and at proper temperatures. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples (LCS), and matrix spike/matrix spike duplicates (MS/MSD). The laboratory did not qualify data based on field detections. The QA/QC results for the laboratory reports associated with groundwater and surface water monitoring points from TestAmerica Laboratory Report 680-122444-1 are summarized below:

- Several analytes were detected between method detection limits (MDLs) and practical quantitation limits (PQLs); these detections were qualified with an "I".
- LCS and LCSD was biased high for iodomethane, methylene chloride, and vinyl chloride; associated results were non-detect qualified with a "UJ".
- The closing calibration verification (CCV) associated with batch 423786 and 423788 recovered above the upper control limits for ethylene dibromide, pentachloroethane, 1,2-dibromo-3-chloropropane, EDB, and DBCP. Samples associated with this CCV were non-detects; therefore, results are not qualified.
- Insufficient sample volume was available to perform a MS/MSD (batch 425168, 424907, and 425265, method 8260B).
- Ammonia (as N) failed the recovery criteria low for the MS/MSD of sample MWB-20(S) in batch 424150.

Other QA/QC issues were not identified; therefore, the remaining results from the March 2016 event are considered acceptable without qualification.

5.2 Laboratory Analysis Results

Tables 2A and 2B summarize laboratory analytical results for shallow and intermediate groundwater samples, respectively; Table 3 summarizes surface water samples. Copies of the laboratory analytical reports are provided in Appendix B. An electronic copy of the ADaPT software results is provided in Appendix D. Groundwater Monitoring Report Certification is included as Appendix E.

5.3 Field Parameter Measurement Results

Table 4 summarizes field parameter measurements for groundwater and surface water samples collected during this event. Original field forms with parameter measurements are included at the end of the laboratory report in Appendix B.

Groundwater field parameter readings and observations are consistent with those from previous semi-annual monitoring events. Historically, the average pH increases with depth between the shallow and intermediate zones of the aquifer. Turbidity values were lower than 12 nephelometric turbidity units (NTUs) with the exception of well MWB-2(S) and MWB-12(S), which had turbidity values of 139.3 NTU and 40.01 NTU respectively. Surface water field parameter readings and observations are comparable to historical surface water measurements.

6.0 COMPARISON TO ESTABLISHED STANDARDS

F.A.C. Chapter 62-701.510 and the facility permit require comparison of water quality monitoring data to water quality standards specified in F.A.C. Chapter 62-520 (Ground Water Classes, Standards, and Exemptions) and F.A.C. Chapter 62-302 (Surface Water Quality Standards). The following sections present a description of the established standards and comparison of results for groundwater and surface water.

6.1 Groundwater

6.1.1 Established Standards

F.A.C. Chapter 62-520 establishes classes and standards for groundwater. The primary maximum contaminant levels (MCLs) and secondary maximum contaminant levels (SMCLs) for parameters included in laboratory analysis are listed on Tables 2A and 2B. The only field parameter with an established drinking water standard under F.A.C. Rule 62-550.310 and 62.550.320 is pH, with an SMCL in the range of 6.5 to 8.5 Standard Units (S.U.). F.A.C. Chapter 62-520.420 indicates that "if the concentration for any constituent listed in subsection (1) above in the natural background quality of the groundwater is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard for Class G-I and Class G-II ground water."

6.1.2 Comparison of Groundwater Data to Established Standards

The groundwater monitoring results from the March 2106 event met minimum criteria established under F.A.C. Chapter 62-520.400 and primary MCLs established under F.A.C. Chapter 62-550.310. SMCL exceedances were measured for iron and pH. These exceedances are summarized below.

Iron (SMCL 0.3 milligrams per liter (mg/L))

- Shallow wells: MWB-2(S), MWB-3(S), MWB-11(S), MWB-12(S), MWB-13(S), MWB-29(S), and MWB-32(S)
- Intermediate wells: MWB-2(I), MWB-3(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-27(I), MWB-29(I), MWB-32(I), and MWB-34(I)

pH (SMCL 6.5 to 8.5 S.U.)

- Shallow wells: All measured background, compliance, and detection well values were below 6.5 S.U.
- Intermediate wells: All background, compliance, and detection well values were below 6.5 S.U.

The above SMCL exceedances have been historically detected and reported to FDEP; no new SMCL exceedances require reporting under F.A.C. Chapter 62-701.510. Iron and pH have also been detected in

background wells at concentrations greater than (or, in the case of pH, less than) the associated SMCL. These SMCL exceedances, therefore, appear to be related to natural subsurface conditions rather than landfill impacts. A filtered sample was also collected by Protech for MWB-2(S) using a 1 micron filter and was analyzed for dissolved metals (Table 2A). The metal concentrations of the field-filtered sample collected from MWB-2(S) were below all MCL and SMCL with the exception of iron (dissolved iron = 4600 micrograms per liter (ug/L)).

6.2 Surface Water

6.2.1 Established Standards

Surface water analytical results were compared to Class I and Class III criteria. Standards for these two classes are provided in Table 3 for laboratory parameters and Table 4 for field parameters. In some cases, F.A.C. Chapter 62-302.530 requires calculations for Class I and III standards based on sample hardness. Table 5 provides equations and calculation results for analytes that require standard calculation, including cadmium, chromium, copper, lead, nickel, and zinc.

6.2.2 Comparison of Surface Water Data to Established Standards

The following detections exceeded Class I/III surface water quality standards (WQS) identified in Table 3 (laboratory parameters), Table 4 (field parameters), and/or Table 5 (calculated standards):

Beryllium (Class I - 0.0077 ug/L)

- SW-1
- SW-3

Iron (Class I/III – 1000 ug/L)

- SW-1
- SW-3

Lead (Calculated)

- SW-1
- SW-3

Mercury (Class I/III -0.012 ug/L)

- SW-1
- SW-3

pH (SMCL 6.5 to 8.5 S.U.)

- SW-1

All exceedances have been historically detected at surface water locations at comparable concentrations exceeding the applicable WQS, and likely does not represent a landfill impact at SW-1. Ongoing efforts to

reduce total suspended solids and metals concentrations have been successful at SW-3. Only beryllium, iron, lead, and mercury exceeded applicable WQS during the March 2016 event. It is important to note that the pond associated with SW-3 has not discharged and the surface water is not being used for wetland irrigation until a compliant analytical result is attained. The Trail Ridge Landfill developed and submitted standard operating procedures (SOP) under separate cover that addresses remedial action for SW-3 exceedances. The Trail Ridge Landfill has initiated select activities from the SOP (including flocculation to reduce metals concentrations at the surface water location), weekly inspections, and monthly sampling Additional flocculation events will be performed as needed based on the sampling results.

7.0 DISCUSSION AND RECOMMENDATIONS

Analyte detections and exceedances observed during this event for both groundwater and surface water are consistent with historical conditions and/or background water quality. No new exceedances require reporting under F.A.C. Chapter 62-701.510. Based on these findings, Golder recommends continued semi-annual detection monitoring in accordance with F.A.C. Chapter 62-701 and the facility permit. The next groundwater and surface water monitoring event should be conducted prior to September 30, 2015.

Elevated turbidity readings have been observed at well MWB-2(S) since the July 2014 semi-annual event. The well was unsuccessfully redeveloped in February 2015. During this March 2016 event a 1 micron field filtered sample was collected in addition to the total metals sample. ProTech personnel reported that the elevated turbidity issues may be caused by compromised well integrity. Golder is providing the following recommendations:

- Redevelop MWB-2(S) during the next semi-annual event (July 2016) according to the procedures in Section 4.0 of the FDEP Monitoring Well Design Construction Manual (2008). The well should be redeveloped using the mechanical surging with a 2-inch surge block that is moved up and down the well screen, as described in Section 4.2 (FDEP, 2008). Well sampling should occur more than 24 hours after well re-development.
- If turbidity continues to be elevated after redevelopment, MWB-2(S) should be sampled for both total and dissolved constituents using a 1 micron filter in the field more than 24 hours after well re-development. The turbidity of the groundwater for both the total and field-filtered sample should be recorded on the purge form.

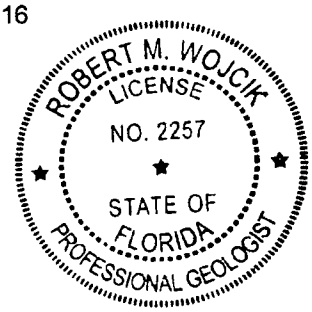
8.0 PROFESSIONAL CERTIFICATION

I hereby certify that I have supervised the current field work and preparation of this report, in accordance with Chapter 62-701, Florida Solid Waste Management Facility Regulations. As a registered professional geologist, I certify that I am a qualified professional with knowledge and experience in water quality assessment. To the best of my knowledge, the information and laboratory data summarized in this report (including the applicable attachments) are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

GOLDER ASSOCIATES INC.

Robert M. Wojcik, PG
Associate and Senior Consultant
Florida Professional Geologist No. 2257

April 15, 2016



9.0 REFERENCES

Florida Administrative Code (F.A.C.) Rules: 62-160, 62-302, 62-520, 62-550, 62-701, and 62-711.

Florida Department of Environmental Protection, DEP-SOP-001/01

Florida Department of Environmental Protection, Notice of Permit, June 16, 2014, Permit Number 0013493-025-SO-01.

Golder Associates, September 25, 2015, Semi-Annual Groundwater and Surface Water Monitoring Report for the Second 2015 Monitoring Period, Trail Ridge Landfill, Duval County Florida, Permit No. 0013493-025-SO-01.

TABLES

TABLE 1
Water Level Measurements
Trail Ridge Landfill, Jacksonville, Florida

Well ID	TOC Elevation (ft MSL)	Screened Interval (ft BTOC)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
Shallow Wells				
MWB-2(S)	146.64	10.00 to 20.00	9.40	137.24
MWB-3(S)	154.38	10.00 to 20.00	8.10	146.28
MWB-7(S)	123.29	10.00 to 20.00	10.02	113.27
MWB-11(S)	120.81	9.50 to 19.50	12.40	108.41
MWB-12(S)	124.63	14.50 to 24.50	10.78	113.85
MWB-13(S)	126.05	16.56 to 26.56	14.23	111.82
MWB-20(S)	121.01	10.00 to 20.00	9.40	111.61
MWB-21(S)	122.84	13.00 to 18.00	10.78	112.06
MWB-22(S)	126.97	16.00 to 26.00	12.10	114.87
MWB-27(S)	128.42	10.50 to 15.50	7.53	120.89
MWB-29(S)	138.02	10.00 to 20.00	8.02	130.00
MWB-32(S)	124.64	14.90 to 19.90	8.70	115.94
MWB-33(S)	125.90	10.30 to 20.30	10.42	115.48
MWB-34(S)	125.78	13.36 to 18.36	9.18	116.60
Intermediate Wells				
MWB-2(I)	145.73	51.50 to 61.50	11.25	134.48
MWB-3(I)	151.86	52.00 to 62.00	14.41	137.45
MWB-7(I)	121.53	55.00 to 65.00	10.53	111.00
MWB-11(IR)	120.43	45.00 to 55.00	19.80	100.63
MWB-12(I)	124.62	61.50 to 71.50	11.02	113.60
MWB-13(I)	125.98	50.40 to 60.40	17.81	108.17
MWB-27(I)	128.63	52.50 to 62.50	8.74	119.89
MWB-29(I)	138.08	53.50 to 63.50	8.07	130.01
MWB-32(I)	124.79	54.56 to 64.56	9.42	115.37
MWB-34(I)	125.80	43.95 to 53.95	10.46	115.34
Deep Wells				
MWB-7(D)	121.65	107.00 to 117.00	5.32	116.33
MWB-12(D)	124.56	102.00 to 112.00	8.56	116.00
MWB-27(D)	128.88	110.00 to 110.00	9.12	119.76
MWB-29(D)	138.18	100.50 to 110.50	8.18	130.00
MWB-31(D)	156.15	119.00 to 129.00	19.05	137.10
MWB-32(D)	124.93	98.81 to 108.81	9.76	115.17
MWB-34(D)	125.92	90.78 to 100.78	11.20	114.72

Notes:

TOC - top of casing; ft BTOC - feet below top of casing; ft MSL - feet above mean sea level; NM - Not Measured

Depth to water measurements collected by ProTech on March 1, 2016. Top of casing elevations based on groundwater well survey data provided in October 2010 potentiometric maps (HDR Engineering).

Golder Associates

Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2S	MWB-3S	MWB-11S	MWB-12S	MWB-13S	MWB-20S	MWB-21S
Laboratory Method EPA 8260										
1,1,1,2-Tetrachloroethane	ug/L			< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,1,1-Trichloroethane	ug/L	200		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,1,2,2-Tetrachloroethane	ug/L			< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
1,1,2-Trichloroethane	ug/L	5		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0 33	< 0.33
1,1-Dichloroethane	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
1,1-Dichloroethene	ug/L	7		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2,3-Trichloropropane	ug/L			< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,2-Dibromoethane	ug/L	0.02		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0 44
1,2-Dichlorobenzene	ug/L	600		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,2-Dichloroethane	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/L	5		< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
1,4-Dichlorobenzene	ug/L	75		< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
2-Butanone	ug/L			< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
2-Hexanone	ug/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone	ug/L			< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Acetone	ug/L			< 7	< 7	< 7	< 7	< 7	< 7	< 7
Acrylonitrile	ug/L			< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	1		< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0 43
Bromochloromethane	ug/L			< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Bromodichloromethane	ug/L			< 0.44	< 0.44	< 0.44	< 0 44	< 0.44	< 0.44	< 0.44
Bromoform	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Bromomethane	ug/L			< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Carbon disulfide	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	ug/L	3		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane	ug/L			< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	ug/L			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0 4
cis-1,2-Dichloroethene	ug/L	70		< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
cis-1,3-Dichloropropene	ug/L			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Dibromochloromethane	ug/L			< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Dibromomethane	ug/L			< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	ug/L	700		< 0.33	< 0 33	< 0.33	< 0.33	< 0.37	< 0.33	< 0.33
Iodomethane	ug/L			< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	ug/L	5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Styrene	ug/L	100		< 0 27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Tetrachloroethene	ug/L	3		< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Toluene	ug/L	1000		< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
trans-1,2-Dichloroethene	ug/L	100		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
trans-1,3-Dichloropropene	ug/L			< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,4-Dichloro-2-butene	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Trichloroethene	ug/L	3		< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0 48	< 0.48
Trichlorofluoromethane	ug/L			< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Vinyl acetate	ug/L			< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
Vinyl chloride	ug/L	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, Total	ug/L	10000		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Laboratory Method EPA 8011										
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0054	< 0.0050	< 0.0049	< 0.0052	< 0.0050	< 0.0051	< 0.0051
1,2-Dibromoethane	ug/L	0.02		< 0.0024	< 0.0022	< 0.0022	< 0.0023	< 0.0022	< 0.0022	< 0.0022

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits

Bold values indicate detections above the laboratory detection limit; Greyed cells indicate an MCL/SMCL exceedance.

Golder Associates

Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-22S	MWB-27S	MWB-29S	MWB-32S	MWB-33S	MWB-34S
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,1,1-Trichloroethane	ug/L	200		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,1,2,2-Tetrachloroethane	ug/L			< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
1,1,2-Trichloroethane	ug/L	5		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloroethane	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
1,1-Dichloroethene	ug/L	7		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2,3-Trichloropropane	ug/L			< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 1.1	< 1 1	< 1.1	< 1.1	< 1.1	< 1.1
1,2-Dibromoethane	ug/L	0.02		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichlorobenzene	ug/L	600		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
1,2-Dichloroethane	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/L	5		< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0 67
1,4-Dichlorobenzene	ug/L	75		< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
2-Butanone	ug/L			< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
2-Hexanone	ug/L			< 2	< 2	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone	ug/L			< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Acetone	ug/L			< 7	< 7	< 7	< 7	< 7	< 7
Acrylonitrile	ug/L			< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	1		< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Bromochloromethane	ug/L			< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Bromodichloromethane	ug/L			< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Bromoform	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0 43
Bromomethane	ug/L			< 2 5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Carbon disulfide	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	ug/L	3		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane	ug/L			< 2.5	< 2 5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	ug/L			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	ug/L	70		< 0.41	< 0.41	< 0.41	< 0 41	< 0.41	< 0 41
cis-1,3-Dichloropropene	ug/L			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Dibromochloromethane	ug/L			< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Dibromomethane	ug/L			< 0.35	< 0.35	< 0.35	< 0.35	< 0 35	< 0.35
Ethylbenzene	ug/L	700		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Iodomethane	ug/L			< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	ug/L	5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Styrene	ug/L	100		< 0.27	< 0.27	< 0.27	< 0 27	< 0.27	< 0 27
Tetrachloroethene	ug/L	3		< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Toluene	ug/L	1000		< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
trans-1,2-Dichloroethene	ug/L	100		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
trans-1,3-Dichloropropene	ug/L			< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,4-Dichloro-2-butene	ug/L			< 0.51	< 0.51	< 0.51	< 0 51	< 0.51	< 0 51
Trichloroethene	ug/L	3		< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Trichlorofluoromethane	ug/L			< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Vinyl acetate	ug/L			< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
Vinyl chloride	ug/L	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, Total	ug/L	10000		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0048	< 0.0049	< 0.0049	< 0.0052	< 0.0051	< 0.0049
1,2-Dibromoethane	ug/L	0.02		< 0.0021	< 0.0021	< 0.0021	< 0.0023	< 0.0022	< 0.0022

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits

Bold values indicate detections above the laboratory detection limit; Greyed cells indicate an MCL/SMCL exceedance.

Golder Associates

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2S	MWB-3S	MWB-11S	MWB-12S	MWB-13S	MWB-20S	MWB-21S
Laboratory Method EPA 300.0										
Chloride	mg/L		250	**5.5**	**8.1**	**17**	**42**	**14**	**120**	**8.4**
Laboratory Method EPA 350.1										
Ammonia (N)	mg/L			< 0.10	< 0.10	**0.10 I**	**0.14 I**	**0.20 I**	**2.3**	**0.43**
Laboratory Method EPA 353.2 (Nitrate (N))										
Nitrate (N)	mg/L	10		**0.082**	**0.20**	**0.41**	**0.98**	**0.38**	**0.038 I**	**0.37**
Laboratory Method EPA 6020										
Antimony	ug/L	6		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	ug/L	10		**2.1 I**	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	ug/L	2000		**35**	**12**	**57**	**7.5**	**5.1**	**30**	**16**
Beryllium	ug/L	4		**0.29 I**	< 0.17	**0.17 I**	< 0.17	< 0.17	**0.17 I**	< 0.17
Cadmium	ug/L	5		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Chromium	ug/L	100		**13**	< 1.6	< 1.6	**3.2 I**	**3.6 I**	< 1.6	< 1.6
Cobalt	ug/L			**2.1**	< 0.12	**0.47 I**	**0.14 I**	**0.12 I**	**0.35 I**	< 0.12
Copper	ug/L		1000	**3.6 I**	< 1.7	< 1.7	**2.2 I**	**2.7 I**	< 1.7	**2.6 I**
Iron	ug/L		300	**5400**	**1100**	**650**	**340**	**780**	**220**	**76 I**
Lead	ug/L	15		**8.6**	< 0.98	< 0.98	**1.3 I**	< 0.98	< 0.98	< 0.98
Nickel	ug/L	100		**5.6**	< 1.9	< 1.9	< 1.9	**1.9 I**	< 1.9	< 1.9
Selenium	ug/L	50		**10**	< 1	< 1	**14**	**3.3**	< 1.0	**1.5 I**
Silver	ug/L		100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sodium	ug/L	160000		**8400**	**5100**	**10000**	**32000**	**14000**	**52000**	**4100**
Thallium	ug/L	2		< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Vanadium	ug/L			**14**	< 3.8	< 3.8	**43**	**27**	< 5.3	**7.2 I**
Zinc	ug/L		5000	**10 I**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
Laboratory Method EPA 6020 - Dissolved										
Antimony	ug/L	6		< 0.50	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	10		**1.9 I**	NA	NA	NA	NA	NA	NA
Barium	ug/L	2000		**29**	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	4		**0.26 I**	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	5		< 0.15	NA	NA	NA	NA	NA	NA
Chromium	ug/L	100		**13**	NA	NA	NA	NA	NA	NA
Cobalt	ug/L			**1.8**	NA	NA	NA	NA	NA	NA
Copper	ug/L		1000	**3.4 I**	NA	NA	NA	NA	NA	NA
Iron	ug/L		300	**4600**	NA	NA	NA	NA	NA	NA
Lead	ug/L	15		**7.0**	NA	NA	NA	NA	NA	NA
Nickel	ug/L	100		**5.4**	NA	NA	NA	NA	NA	NA
Selenium	ug/L	50		**8.1**	NA	NA	NA	NA	NA	NA
Silver	ug/L		100	< 0.10	NA	NA	NA	NA	NA	NA
Sodium	ug/L	160000		**7700**	NA	NA	NA	NA	NA	NA
Thallium	ug/L	2		< 0.49	NA	NA	NA	NA	NA	NA
Vanadium	ug/L			**15**	NA	NA	NA	NA	NA	NA
Zinc	ug/L		5000	< 9.6	NA	NA	NA	NA	NA	NA
Laboratory Method SM18 2540 C										
Total Dissolved Solids (TDS)	mg/L		500	**350**	**62**	**110**	**250**	**180**	**230**	**82**
Laboratory Method EPA 7470										
Mercury	ug/L	2		**0.098 I**	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter; NA - not analyzed

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits

Bold values indicate detections above the laboratory detection limit; Greyed cells indicate an MCL/SMCL exceedance.

Golder Associates

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-22S	MWB-27S	MWB-29S	MWB-32S	MWB-33S	MWB-34S
Laboratory Method EPA 300.0									
Chloride	mg/L		250	**14**	**35**	**8.6**	**13**	**9.6**	**14**
Laboratory Method EPA 350.1									
Ammonia (N)	mg/L			**0.12 I**	**1.2**	**0.16 I**	**0.61**	**0.55**	**0.41**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.01	**2.7**	**0.013 I**	**0.011 I**	**0.21**	**6.5**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1 I**
Arsenic	ug/L	10		< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	ug/L	2000		**3.4 I**	**6.9**	**10**	**26**	**9.1**	**4.5 I**
Beryllium	ug/L	4		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Cadmium	ug/L	5		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Chromium	ug/L	100		< 1.6	**2.9 I**	< 1.6	**1.7 I**	< 1.6	< 1.6
Cobalt	ug/L			< 0.12	**0.12 I**	**0.22 I**	**0.34 I**	< 0.12	**0.27 I**
Copper	ug/L		1000	< 1.7	**2.6 I**	< 1.7	< 1.7	< 1.7	**4.1 I**
Iron	ug/L		300	**87 I**	**89 I**	**370**	**700**	**110**	**140**
Lead	ug/L	15		< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
Nickel	ug/L	100		< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Selenium	ug/L	50		**1.1 I**	**1.3 I**	**1.5 I**	**1.5 I**	**1.5 I**	**7.0**
Silver	ug/L		100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sodium	ug/L	160000		**10000**	**26000**	**6800**	**8500**	**8200**	**33000**
Thallium	ug/L	2		< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Vanadium	ug/L			< 5.3	**15**	< 5.3	< 5.3	**22**	**48**
Zinc	ug/L		5000	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**27**
Laboratory Method EPA 6020 - Dissolved									
Antimony	ug/L	6		NA	NA	NA	NA	NA	NA
Arsenic	ug/L	10		NA	NA	NA	NA	NA	NA
Barium	ug/L	2000		NA	NA	NA	NA	NA	NA
Beryllium	ug/L	4		NA	NA	NA	NA	NA	NA
Cadmium	ug/L	5		NA	NA	NA	NA	NA	NA
Chromium	ug/L	100		NA	NA	NA	NA	NA	NA
Cobalt	ug/L			NA	NA	NA	NA	NA	NA
Copper	ug/L		1000	NA	NA	NA	NA	NA	NA
Iron	ug/L		300	NA	NA	NA	NA	NA	NA
Lead	ug/L	15		NA	NA	NA	NA	NA	NA
Nickel	ug/L	100		NA	NA	NA	NA	NA	NA
Selenium	ug/L	50		NA	NA	NA	NA	NA	NA
Silver	ug/L		100	NA	NA	NA	NA	NA	NA
Sodium	ug/L	160000		NA	NA	NA	NA	NA	NA
Thallium	ug/L	2		NA	NA	NA	NA	NA	NA
Vanadium	ug/L			NA	NA	NA	NA	NA	NA
Zinc	ug/L		5000	NA	NA	NA	NA	NA	NA
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**210**	**180**	**45**	**120**	**200**	**430**
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter; NA - not analyzed

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits

Bold values indicate detections above the laboratory detection limit; Greyed cells indicate an MCL/SMCL exceedance.

Golder Associates

Table 2B
Summary of Groundwater Analytical Results - Intermediate
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB2I	MWB3I	MWB11(IR)	MWB12I	MWB13I	MWB27I	MWB29I	MWB32I	MWB34I
Laboratory Method EPA 300.0												
Chloride	mg/L		250	**6.7**	**6.4**	**5.9**	**5.1**	**5.2**	**6.5**	**6.0**	**5.2**	**5.4**
Laboratory Method EPA 350.1												
Ammonia (N)	mg/L			0.18 I	< 0.10	< 0.10	1.1 I	1.0 I	0.13 I	< 0.10	< 0.10	< 0.10
Laboratory Method EPA 353.2 (Nitrate (N))												
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 6020												
Iron	ug/L		300	**380**	**990**	**420**	**320**	**320**	**430**	**450**	**400**	**420**
Sodium	ug/L	160000		**4600**	**4100**	**3700**	**3600**	**3500**	**3700**	**4100**	**3400**	**3700**
Laboratory Method SM18 2540 C												
Total Dissolved Solids (TDS)	mg/L		500	**16**	**47**	**5.0**	**11**	**14**	**21**	**33**	**68**	**37**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter; NA- Not analyzed

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; J - Approximate value; -- not sampled.

Bold values indicate detections above the laboratory detection limit; Greyed cells indicate an MCL/SMCL exceedance.

Golder Associates

Table 3
Summary of Surface Water Analytical Results
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	ClassIWQS	ClassIIIWQS	SW-1	SW-3
Laboratory Method EPA 353.2 (Nitrate (N))					
Nitrate (N)	mg/L	10		**0.016 I**	**4.3**
Laboratory Method EPA 365.4					
Phosphorus- Total	mg/L			< 0.41	**0.21**
Laboratory Method EPA 6020					
Antimony	ug/L	14	4300	< 0.5	**1.0 I**
Arsenic	ug/L	10	50	< 1.5	**2.4 I**
Barium	ug/L	1000		**61**	**64**
Beryllium	ug/L	0.0077	0.13	**0.21 I**	**0.27 I**
Cadmium	ug/L	Calc	Calc	< 0.15	< 0.15
Chromium	ug/L	Calc	Calc	**13**	**15**
Cobalt	ug/L			**0.53**	**1.1**
Copper	ug/L	Calc	Calc	**2.8 I**	**7.1**
Iron	ug/L	1000	1000	**1300**	**2600**
Lead	ug/L	Calc	Calc	**9.3**	**17**
Nickel	ug/L	Calc	Calc	**2.2 I**	**6.9**
Selenium	ug/L	5	5	**3.9**	**5.1**
Silver	ug/L	0.07	0.07	< 0.1	< 0.1
Thallium	ug/L	1.7	6.3	< 0.49	< 0.49
Vanadium	ug/L			**8.5 I**	**21**
Zinc	ug/L	Calc	Calc	< 9.6	**23**
Laboratory Method EPA 1631					
Mercury	ug/L	0.012	0.012	**0.064**	**0.054**
Laboratory Method FDEP DEP-SOP					
Ammonia- Un-ionized (NH3)	ug/L	20	20	< 0.017	< 0.017
Laboratory Method SM18 10200 H					
Chlorophyll a	mg/L			< 0.5	**9.9**
Laboratory Method SM18 2340 B					
Hardness- Calculated	mg/L			**39**	**160**
Laboratory Method SM18 2540 C					
Residues- Filterable (TDS)	mg/L			**330**	**440**
Laboratory Method SM18 2540 D					
Residues- Nonfilterable (TSS)	mg/L			**12**	**32**
Laboratory Method SM18 5210 B					
BOD	mg/L			**5.6**	**5.6**
Laboratory Method SM18 5220 D					
Chemical Oxygen Demand	mg/L			**100**	**57**
Laboratory Method SM18 5310 C					
Carbon- Total Organic	mg/L			**33**	**22**
Laboratory Method SM18 9222 D (MF)					
Coliform Fecal	CFU/100 mL	800	800	**567**	**56**
Laboratory Method Total Nitrogen					
Nitrogen- Total	mg/L			**2.3**	**7.3**
Laboratory Method SM18 4500 P F					
Orthophosphate	mg/L			**0.026 I**	< 0.016

Notes:

ug/L = micrograms per liter; mg/L = milligrams per liter; I = Reported value between method detection limit and practical quantitation limit; B = Results based upon colony counts outside the acceptable range;

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Bold values indicate detections above the associated reporting limit

WQS = Water Quality Standard, Class I (potable) and Class III (freshwater) (FDEP Chapter 62-302)

Greyed cell indicates a WQS exceedance.

Golder Associates

Table 3
Summary of Surface Water Analytical Results
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	ClassIWQS	ClassIIIWQS	SW-1	SW-3
Laboratory Method EPA 8011					
1,2-Dibromo-3-Chloropropane	ug/L			< 0.0056	< 0.0052
1,2-Dibromoethane	ug/L			< 0.0025	< 0.0023
Laboratory Method EPA 8260					
1,1,1,2-Tetrachloroethane	ug/L			< 0.37	< 0.37
1,1,1-Trichloroethane	ug/L			< 0.37	< 0.37
1,1,2,2-Tetrachloroethane	ug/L	0.17	10.8	< 0.62	< 0.62
1,1,2-Trichloroethane	ug/L			< 0.33	< 0.33
1,1-Dichloroethane	ug/L			< 0.38	< 0.38
1,1-Dichloroethene	ug/L	7	3.2	< 0.36	< 0.36
1,2,3-Trichloropropane	ug/L			< 0.39	< 0.39
1,2-Dibromo-3-Chloropropane	ug/L			< 1.1	< 1.1
1,2-Dibromoethane	ug/L			< 0.44	< 0.44
1,2-Dichlorobenzene	ug/L			< 0.37	< 0.37
1,2-Dichloroethane	ug/L			< 0.50	< 0.50
1,2-Dichloropropane	ug/L			< 0.67	< 0.67
1,4-Dichlorobenzene	ug/L			< 0.46	< 0.46
2-Butanone	ug/L			< 3.4	< 3.4
2-Hexanone	ug/L			< 2.0	< 2.0
4-Methyl-2-pentanone	ug/L			< 2.1	< 2.1
Acetone	ug/L			< 7.0	< 7.0
Acrylonitrile	ug/L			< 10	< 10
Benzene	ug/L	1.18	71.28	< 0.43	< 0.43
Bromochloromethane	ug/L			< 0.45	< 0.45
Bromodichloromethane	ug/L	0.27	22	< 0.32	< 0.32
Bromoform	ug/L	4.3	360	< 0.43	< 0.43
Bromomethane	ug/L			< 2.5	< 2.5
Carbon disulfide	ug/L			< 1.0	< 1.0
Carbon tetrachloride	ug/L	3	4.42	< 0.33	< 0.33
Chlorobenzene	ug/L			< 0.26	< 0.26
Chloroethane	ug/L			< 2.5	< 2.5
Chloroform	ug/L	5.67	470.8	< 0.50	< 0.50
Chloromethane	ug/L	5.67	470.8	< 0.40	< 0.40
cis-1,2-Dichloroethene	ug/L			< 0.41	< 0.41
cis-1,3-Dichloropropene	ug/L			< 0.40	< 0.40
Dibromochloromethane	ug/L	0.41	34	< 0.32	< 0.32
Dibromomethane	ug/L			< 0.35	< 0.35
Ethylbenzene	ug/L			< 0.33	< 0.33
Iodomethane	ug/L			< 5.0	< 5.0
Methylene chloride	ug/L	4.65	1580	< 2.5	< 2.5
Styrene	ug/L			< 0.27	< 0.27
Tetrachloroethene	ug/L	3	8.85	< 0.74	< 0.74
Toluene	ug/L			< 0.48	< 0.48
trans-1,2-Dichloroethene	ug/L			< 0.37	< 0.37
trans-1,3-Dichloropropene	ug/L			< 0.42	< 0.42
trans-1,4-Dichloro-2-butene	ug/L			< 0.51	< 0.51
Trichloroethene	ug/L	3	80.7	< 0.48	< 0.48
Trichlorofluoromethane	ug/L			< 0.42	< 0.42
Vinyl acetate	ug/L			< 0.81	< 0.81
Vinyl chloride	ug/L			< 0.50	< 0.50
Xylenes, Total	ug/L			< 0.23	< 0.23

Notes:

ug/L = micrograms per liter; mg/L = milligrams per liter; I = Reported value between method detection limit and practical quantitation limit

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Bold values indicate detections above the associated reporting limit

WQS = Water Quality Standard, Class I (potable) and Class III (freshwater) (FDEP Chapter 62-302)

Greyed cell indicates a WQS exceedance.

Golder Associates

TABLE 4
Groundwater and Surface Water Field Parameter Summary
Trail Ridge Landfill, Jacksonville, Florida

Well ID	pH	Dissolved Oxygen	Specific Conductivity	Temperature	Turbidity	Color	Sheen
	(SU)	(mg/L)	(uS/cm)	(°C)	(NTU)	(by observation)	
Drinking Water SMCL:	6.5 to 8.5	--	--	--	--	--	--
Class I/III WQS:	Vary 1 Unit	<5.0	1,275 or 50%	--	29 > BG	--	--
Shallow Wells							
MWB-2(S)	4.97	1.4	47	21.3	139.3	Brown	None
MWB-3(S)	4.45	0.2	57	18.7	3.41	None	None
MWB-11(S)	4.03	0.1	160	21.4	1.63	None	None
MWB-12(S)	5.59	1.3	359	21.6	40.01	Brown Tint	None
MWB-13(S)	5.77	0.4	282	21.6	11.03	Yellow Tint	None
MWB-20(S)	4.13	0.1	451	20.6	4.27	None	None
MWB-21(S)	4.90	0.2	103	22.6	2.99	None	None
MWB-22(S)	5.91	0.1	319	21.6	1.23	None	None
MWB-27(S)	5.31	0.1	246	18.4	3.40	None	None
MWB-29(S)	4.40	0.0	59	18.4	1.51	None	None
MWB-32(S)	5.01	0.1	143	21.5	6.82	Brownish/Yellow Tint	None
MWB-33(S)	5.86	0.2	314	22.3	4.15	Slight Yellow Tint	None
MWB-34(S)	6.26	0.3	789	22.0	2.34	Slight Yellow Tint	None
Intermediate Wells							
MWB-2(I)	4.60	0.2	38	21.5	1.00	None	None
MWB-3(I)	4.55	0.0	41	20.7	0.17	None	None
MWB-11(IR)	4.77	0.0	40	24.3	3.71	None	None
MWB-12(I)	4.75	0.1	44	24.5	0.78	None	None
MWB-13(I)	5.00	0.1	41	25.5	3.45	None	None
MWB-27(I)	5.32	0.1	54	20.7	3.81	None	None
MWB-29(I)	4.93	0.0	44	23.4	7.31	None	None
MWB-32(I)	5.24	0.1	44	21.9	10.46	Slight White Tint	None
MWB-34(I)	5.03	0.0	46	25.6	4.90	None	None
Surface Water February 2015 Event							
SW-1	6.32	7.9	99	11.7	114.8	Dark Brown	None
SW-3	6.64	4.3	519	15.7	173.9	Brown	None

Notes:

SU - standard units; mg/L - milligrams per liter; uS/cm - microSiemens per centimeter ; NTU - nephelometric turbidity unit; BG - background level
SMCL - secondary maximum contaminant level drinking water standard provided in F.A.C. Chapter 62-550
Class I and III surface water quality standards provided in F.A.C. Chapter 62-302
Greyed cells indicate a WQS exceedance.
Measurements collected by ProTech in March 2016.

Golder Associates

TABLE 5
Surface Water Quality Standard Calculations
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Units	WQS Class I & Class III	SW-1		SW-3		
			39		160		Total Hardness [1]
			3.66		5.08		lnH [2]
			Result (total)	Standard	Result (total)	Standard	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	< 0.15	0.1	< 0.15	0.4	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	**13**	40	**15**	127	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	2.8 I	4.2	**7.1**	14	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	**9.3**	1.0	**17**	5.8	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	2.2 I	24	**6.9**	78	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	< 9.6	54	**23**	178	

Notes:

ug/L - micrograms per liter

WQS - Water Quality Standard, Class I (potable), Class III (freshwater) provided in FDEP Chapter 62-302

*- According to FDEP Rule 62-302.530, if H is less than 25 than 25 shall be used in the calculations

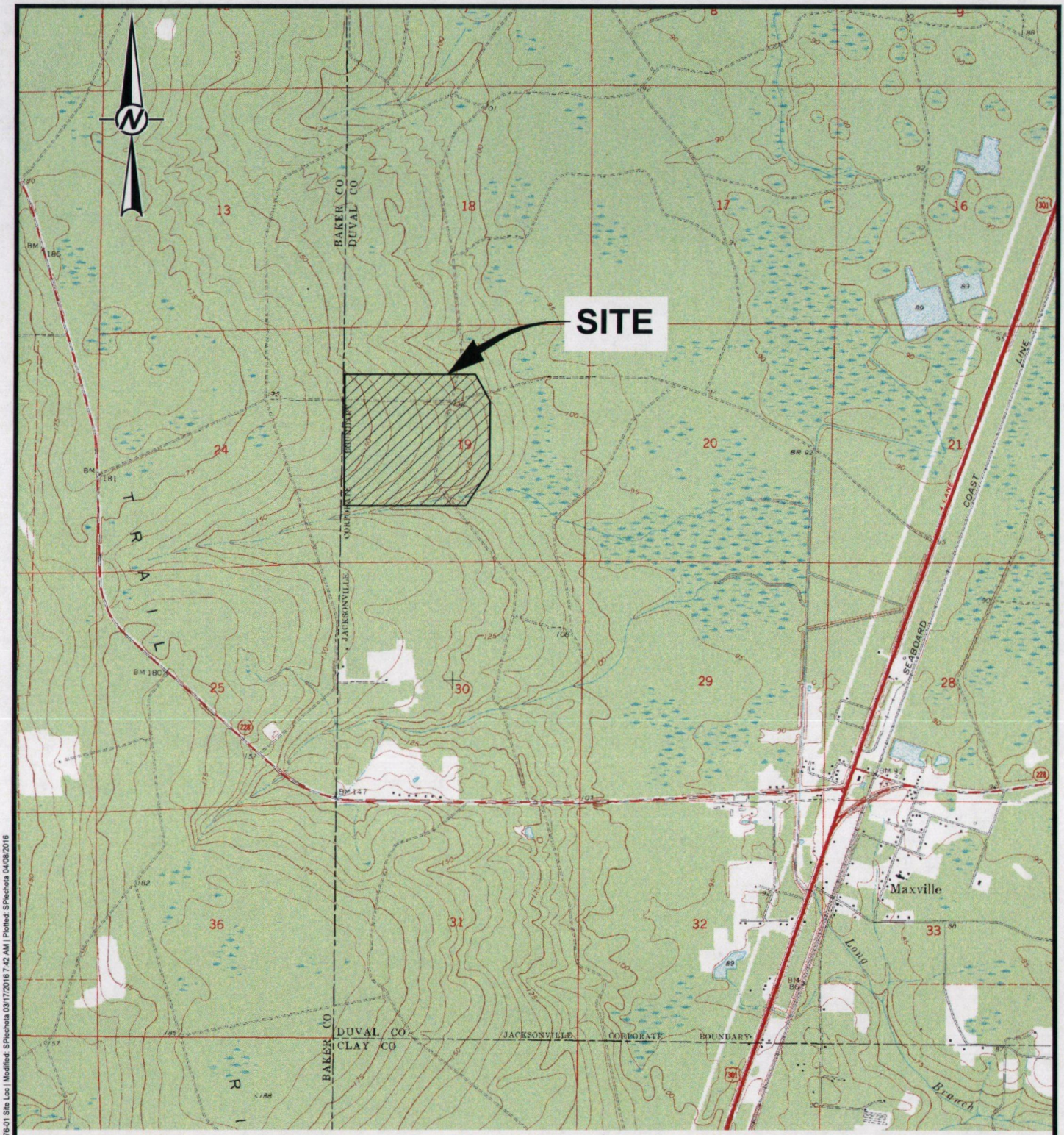
[1] - Total mesured total hardness (H) is reported in mg/L of CaCO3 in the Test America laboratory report

[2] - "ln H" means the natural logarithm of total hardness expressed as mg/L of CaCO3

I - result is qualified because the detection was between method detection limits and practical quantitation limits.

Bold values indicate detections above the laboratory detection limit; greyed cells indicate a WQS exceedance.

FIGURES



REFERENCES

USGS 7.5 MINUTE QUADRANGLE; MAXVILLE, FL 1970
(PHOTOINSPECTED 1984).

0 1500 3000 4500
SCALE FEET

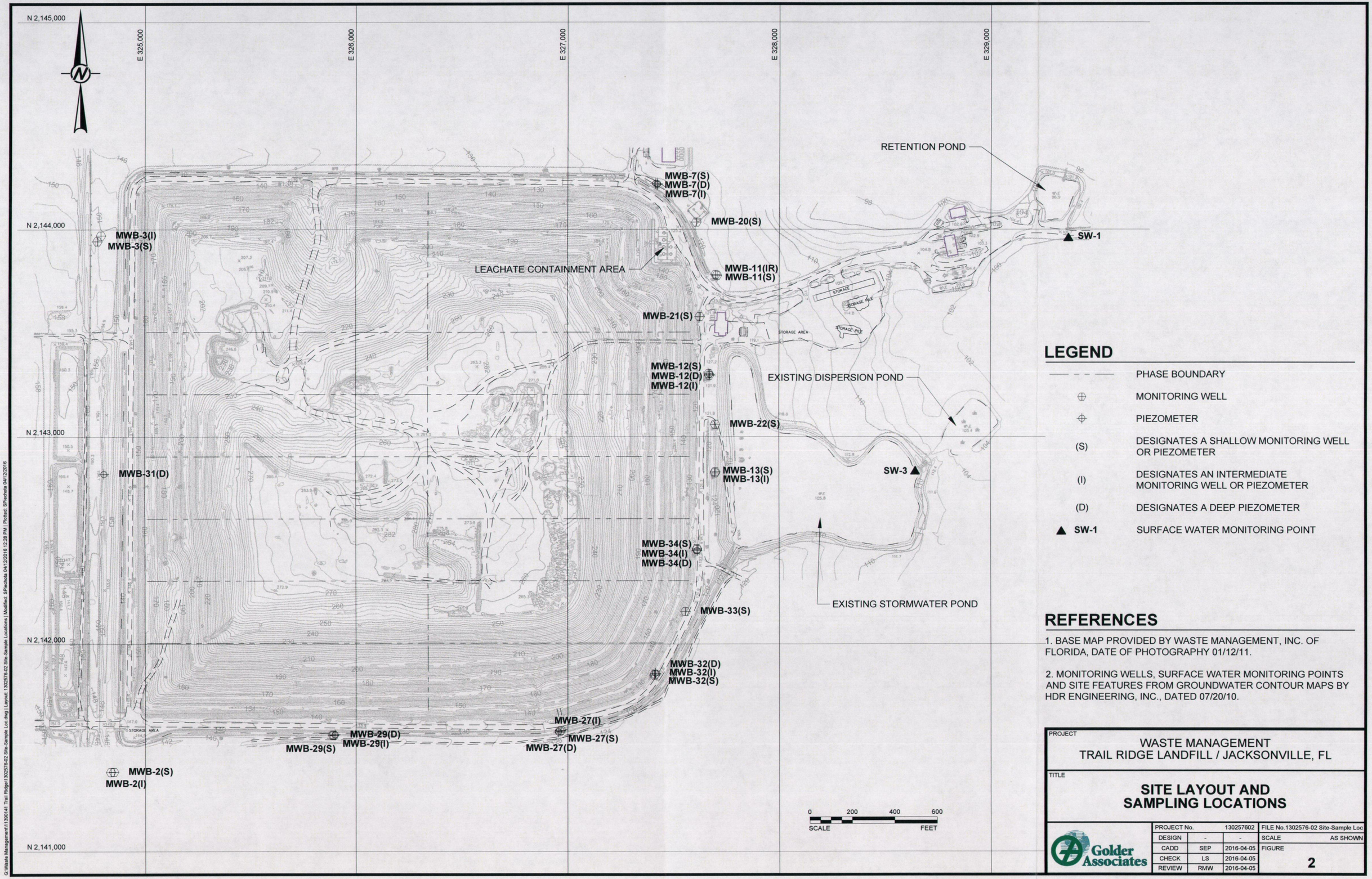
PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
SITE LOCATION

Golder Associates

PROJECT No.		130257602	FILE No.	1302576-01 Site Loc
DESIGN	-	-	SCALE	AS SHOWN
CADD	SEP	2016-04-05	FIGURE	
CHECK	LS	2016-04-05		1
REVIEW	RMW	2016-04-05		

G:\Waste Management\113901411 Trail Ridge\1302576-01 Site Loc.dwg | Layout: 1302576-01 Site Loc | Modified: SPiechota 03/17/2016 7:42 AM | Plotted: SPiechota 04/06/2016



LEGEND

— — —	PHASE BOUNDARY
⊕	MONITORING WELL
⊕	PIEZOMETER
(S)	DESIGNATES A SHALLOW MONITORING WELL OR PIEZOMETER
(I)	DESIGNATES AN INTERMEDIATE MONITORING WELL OR PIEZOMETER
(D)	DESIGNATES A DEEP PIEZOMETER
▲ SW-1	SURFACE WATER MONITORING POINT

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

PROJECT

WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE

SITE LAYOUT AND SAMPLING LOCATIONS

Golder Associates

PROJECT No.		130257602	FILE No.1302576-02 Site-Sample Loc
DESIGN	-	-	SCALE AS SHOWN
CADD	SEP	2016-04-05	FIGURE
CHECK	LS	2016-04-05	2
REVIEW	RMW	2016-04-05	

G:\Waste Management\130141 Trail Ridge\1302576-02 Site-Sample Loc.dwg | Layout: 1302576-02 Site-Sample Locations | Modified: SPiechota 04/12/2016 12:28 PM | Plotted: SPiechota 04/12/2016

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N 2,143,000

N 2,142,000

N 2,141,000

E 325,000

E 326,000

E 327,000

E 328,000

E 329,000

145

140

135

130

125

120

115

110

MWB-3(S)
146.28

MWB-7(S)
113.27

MWB-20(S)
111.61

MWB-11(S)
108.42

MWB-21(S)
112.06

MWB-1 S)
113.85

MWB-22
114.87

MWB-13(S)
111.82

MWB-34(S)
116.60

MWB-33(S)
115.48

MWB-32(S)
115.94

MWB-27(S)
120.89

MWB-29(S)
130.00

MWB-2(S)
137.24

RETENTION POND

LEACHATE
CONTAINMENT AREA

SW-1

EXISTING DISPERSION POND

SW-3

EXISTING STORMWATER POND

0 200 400 600
SCALE FEET

LEGEND

— — —	PHASE BOUNDARY
⊕	SHALLOW MONITORING WELL
⊕	SHALLOW PIEZOMETER
▲ SW-1	SURFACE WATER MONITORING POINT
— — —	POTENTIOMETRIC CONTOUR (FT. MSL)
116.58	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 1, 2016.

2. PIEZOMETRIC WATER LEVEL ONLY.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

ROBERT M. WOJCIK
LICENSE
NO. 2257
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

4/15/16

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
SHALLOW SURFICIAL AQUIFER POTENTIOMETRIC MAP

Golder Associates

PROJECT No.		130257602	FILE No.	1302576-03 Shallow 2016-03	
DESIGN	-	-	SCALE	AS SHOWN	
CADD	SEP	2016-04-05	FIGURE		
CHECK	LS	2016-04-05		3	
REVIEW	RMW	2016-04-05			

G:\Waste Management\1130141.Trail Ridge\Semi-Annual Pot Maps\2016-03\1302576-03 Shallow 2016-03.dwg | Layout: 1302576-03 Shallow 2016-03 | Modified: SPechota 04/12/2016 12:35 PM | Plotted: SPechota 04/12/2016

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E 325,000 | E 326,000 | E 327,000 | E 328,000 | E 329,000

N 2,144,000

N 2,143,000

N 2,142,000

N 2,141,000

135 | 130 | 125 | 120 | 115 | 110 | 105

MWB-3(I)
137.45

MWB-2(I)
134.48

MWB-29(I)
130.01

MWB-27(I)
119.89

MWB-32(I)
115.37

MWB-34(I)
115.34

MWB-13(I)
108.17

MWB-12(I)
113.60

MWB-11(IR)
100.63

MWB-7(I)
111.00

RETENTION POND

LEACHATE CONTAINMENT AREA

EXISTING DISPERSION POND

EXISTING STORMWATER POND

SW-1

SW-3

LEGEND

———	PHASE BOUNDARY
⊕	INTERMEDIATE MONITORING WELL
⊕	INTERMEDIATE PIEZOMETER
▲ SW-1	SURFACE WATER MONITORING POINT
– – –	POTENTIOMETRIC CONTOUR (FT. MSL)
113.60	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 1, 2016.

2. PIEZOMETRIC WATER LEVEL ONLY.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

ROBERT M. WOJCIK
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PROFESSIONAL GEOLOGIST
4/5/16

0 200 400 600
SCALE FEET

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
INTERMEDIATE SURFICIAL AQUIFER POTENTIOMETRIC MAP

Golder Associates

PROJECT No.		130257602	FILE No.	1302576-04 Intermediate 2016-03
DESIGN	-	-	SCALE	AS SHOWN
CADD	SEP	2016-04-05	FIGURE	4
CHECK	LS	2016-04-05		
REVIEW	RMW	2016-04-05		

G:\Waste Management\130014\1 Trail Ridge\Gems-Annual Pot Maps\2016-03\1302576-04 Intermediate 2016-03.dwg | Layout: 1302576-04 Intermediate 2016-03 | Modified: SPecholia 04/12/2016 12:36 PM | Plotted: SPecholia 04/12/2016 12:36 PM

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N 2,144,000

N 2,143,000

N 2,142,000

N 2,141,000

E 325,000

E 326,000

E 327,000

E 328,000

E 329,000

135

130

125

120

MWB-7(D)
116.33

MWB-12(D)
116.00

MWB-31(D)
137.10

MWB-34(D)
114.72

MWB-32(D)
115.17

MWB-29(D)
130.00

MWB-27(D)
119.76

RETENTION POND

LEACHATE CONTAINMENT AREA

EXISTING DISPERSION POND

EXISTING STORMWATER POND

SW-1

SW-3

LEGEND

	PHASE BOUNDARY
	DEEP PIEZOMETER
▲ SW-1	SURFACE WATER MONITORING POINT
— — —	POTENTIOMETRIC CONTOUR (FT. MSL)
119.76	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 1, 2016.

2. PIEZOMETRIC WATER LEVEL ONLY.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

ROBERT M. WOJCIK
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NO. 2257
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST
4/15/16

0 200 400 600
SCALE FEET

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
DEEP SURFICIAL AQUIFER POTENTIOMETRIC MAP

Golder Associates

PROJECT No.		130257602	FILE No.	1302576-05 Deep 2015-02	
DESIGN	-	-	SCALE	AS SHOWN	
CADD	SEP	2016-04-05	FIGURE	5	
CHECK	LS	2016-04-05			
REVIEW	RMW	2016-04-05			

G:\Waste Management\130574\1 Trail Ridge\Semi-Annual Pot Maps\2016-03\1302576-05 Deep 2015-02.dwg | Layout: 1302576-05 Deep 2015-03 | Modified: \$Pechota (04/12/2016 12:37 PM) | Plotted: \$Pechota (04/12/2016

APPENDIX A
INSTRUMENT CALIBRATION FIELD RECORDS AND WELL DEVELOPMENT FORMS

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 493-3177
Houston (281) 443-7606
Pittsburgh (412) 746-8933

FACILITY NAME: TRAIL RIDGE

?TH TO WATER
EASUREMENTS

DATE: 3-1-16

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB2S	9.40
MWB2I	11.25
MWB3S	8.10
MWB3I	14.41
MWB31D	19.05
MWB7S	10.02
MWB7I	10.53
MWB7D	5.32
MWB11S	12.40
MWB11I (R)	19.80
MWB12S	10.78
MWB12I	11.02
MWB12D	8.56
MWB13S	14.23
MWB13I	17.81
MWB14S	WATER LEVEL IS BELOW THE DEDICATED PUMP
MWB14I	12.25

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB14D	12.31
MWB20S	9.40
MWB21S	10.78
MWB22S	12.10
MWB25S	8.35
MWB25I	7.80
MWB25D	8.41
MWB26S	7.43
MWB27S	7.53
MWB27I	8.74
MWB27D	9.12
MWB28S	7.50
MWB29S	8.02
MWB29I	8.07
MWB29D	8.18
MWB30S	9.07
MWB32S	8.70

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0130
Jacksonville (904) 693-3177
Houston (281) 441-7606
Pittsburgh (412) 746-6844

FACILITY NAME: TRAIL RIDGE

?TH TO WATER
EASUREMENTS

DATE: 3-1-16

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB32I	9.42
MWB32D	9.76
MWB33S	10.42
MWB34S	9.18
MWB34I	10.46
MWB34D	11.20
MWB24S	7.32
MWB23S	15.47

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: TRAIL RIDGE Personnel: DAN ARMOUR

Date: 3-1-16 Page 1 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB29S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB13S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12S ~~MWB2~~	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☒ Turbid	☒ OK ☐ Inadequate	SLIGHTLY CLOUDY
MWB22S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB13I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB2I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

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WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: TRAIL RIDGE Personnel: DAN ARMOUR

Date: 3-1-16 Page 2 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW B3I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B11I(R)	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☐ OK ☒ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	NO LABEL
MW B34I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B32I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B32S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B33S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B34S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B11S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B20S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW B35S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

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WASTE MANAGEMENT

WELL CONDITION INSPECTION FORM

Site: TRAIL RIDGE Personnel: DAN ARMOUR

Date: 3-1-16 Page 3 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB215	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB25	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☐ Clear ☒ Turbid	☒ OK ☐ Inadequate	CLOUDY
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to Site Manager - FOR INTERNAL USE ONLY.

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 2007 10329

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP

☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC: LOT# 50191 EXP: JAN 2017

Standard B 10.0 NTU HF SCIENTIFIC: LOT# 50191 EXP: JAN 2017

Standard C 0.02 NTU HF SCIENTIFIC: LOT# 50191 EXP: JAN 2019

DATE (yy/mm/dd)	TIME (military)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT.)	SAMPLER INITIALS
16/03/01	0700	A	1000	AUTO CAL	-	YES	INIT	DA
"	"	B	10.0	"	-	YES	INIT	DA
"	"	C	0.02	"	-	YES	INIT	DA
16/03/02	0700	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
16/03/03	0730	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (mm/dd/yy)	TIME (military)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES / NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
16/03/01	0700	A	100% SAT	100%	-	YES	INIT	DA
16/03/02	0700	A	100% SAT	100%	-	YES	CONT	DA
16/03/03	0730	A	100% SAT	100%	-	YES	CONT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 µS/cm ENVIRODEPOT LOT# 15A100523 EXP: JULY 2016

Standard B _____

Standard C _____

DATE (mm/dd/yy)	TIME (military)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER'S INITIALS
6/03/01	0700	A	1000	AUTO CAL	-	YES	INIT	DA
6/03/02	0700	A	1000	AUTO CAL	-	YES	CONT	DA
6/03/03	0730	A	1000	AUTO CAL	-	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 7.00 (std) ENVIRODEPOT LOT# 14L1S EXP: NOV 6, 2016

Standard B 4.00 (std) ENVIRODEPOT LOT# 14M1R EXP: DEC 3, 2016

Standard C 10.00 (std) ENVIRODEPOT LOT # 14L1T EXP: NOV. 12, 2016

DATE (yy/mm/dd)	TIME (hr/min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
16/03/01	0700	A	7.00	AUTO CAL	-	YES	INIT	DKA
"	"	B	4.00	"	-	YES	INIT	DKA
"	"	C	10.00	"	-	YES	INIT	DKA
16/03/02	0700	A	7.00	AUTO CAL	-	YES	CONT	DKA
"	"	B	4.00	"	-	YES	CONT	DKA
"	"	C	10.00	"	-	YES	CONT	DKA
16/03/03	0730	A	7.00	AUTO CAL	-	YES	CONT	DKA
"	"	B	4.00	"	-	YES	CONT	DKA
"	"	C	10.00	"	-	YES	CONT	DKA

APPENDIX B
LABORATORY ANALYTICAL REPORTS, CHAIN-OF-CUSTODY FORMS, AND GROUNDWATER COLLECTION FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-122444-1
Client Project/Site: Trail Ridge Landfill

For:
Golder Associates Inc.
3730 Chamblee Tucker Road
Atlanta, Georgia 30341

Attn: Lizmarie Steel

Lisa Harvey

Authorized for release by:
3/28/2016 7:07:20 PM

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 680-122444-1

Laboratory: TestAmerica Savannah

Narrative

Client: Golder Associates Inc.
Project: Trail Ridge Landfill
Report Number: 680-122444-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 3/2/2016 8:58 AM, 3/3/2016 9:42 AM and 3/4/2016 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.6° C, 1.2° C, 1.4° C, 1.7° C and 3.8° C.

The field filtered sample container for dissolved metals (method 6020) was received on hold pending results for the total metals for Sample MWB-2(S)b (680-122444-7). This test was activated on 03/21/2016 per Golder.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-11(S)c (680-122511-3), Trip Blank 122594 (680-122594-3), MWB-34(S)d (680-122511-4), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), Trip Blank 122511 (680-122511-7), MWB-21(S)c (680-122444-8), MWB-29(S)c (680-122444-9), MWB-27(S)c (680-122444-10), MWB-13(S)c (680-122444-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12), MWB-22(S)c (680-122444-13), Trip Blank 2 122511 (680-122511-13) and Trip Blank 01 122444 (680-122444-14) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/14/2016, 03/15/2016 and 03/16/2016.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-425168, 680-424907, and 680-425265.

Methylene Chloride failed the recovery criteria high for LCSD 680-424907/5. Vinyl chloride exceeded the RPD limit. Iodomethane exceeded the RPD limit for LCSD 680-425168/5. Iodomethane exceeded the RPD limit for LCSD 680-425265/30. Refer to the QC report for details.Samples SW-1 (680-122511-1)[2X] and SW-3 (680-122511-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-11(S)c (680-122511-3), MWB-34(S)d (680-122511-4), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-29(S)c (680-122444-9), MWB-27(S)c (680-122444-10), MWB-13(S)c (680-122444-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for 1,2-dibromoethane and 1,2-dibromo-3-chloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared and analyzed on 03/03/2016 and 03/07/2016.

The closing continuing calibration verification (CCV) associated with batch 680-423786 recovered above the upper control limit for Ethylene Dibromide, 1,2-Dibromo-3-Chloropropane and Pentachloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MWB-2(S)b (680-122444-7), MWB-12(S)c (680-122444-12), (CCV 680-423786/33), (680-122491-N-10-A) and (680-122491-O-10-A MS).

The continuing calibration verification (CCV) associated with batch 680-423788 recovered above the upper control limit for EDB, DBCP and Pentachloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: Field Blank 01 122444 (680-122444-6), MWB-21(S)c (680-122444-8), MWB-29(S)c (680-122444-9), MWB-27(S)c (680-122444-10), MWB-13(S)c (680-122444-11), MWB-22(S)c (680-122444-13) and (CCV 680-423788/33).

Job ID: 680-122444-1 (Continued)

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Laboratory: TestAmerica Savannah (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Sample MWB-2(S)b (680-122444-7) was analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/23/2016 and analyzed on 03/24/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/04/2016, 03/08/2016 and 03/09/2016 and analyzed on 03/07/2016, 03/08/2016, 03/09/2016 and 03/10/2016.

Calcium and Magnesium failed the recovery criteria low for the MS/MSD of sample 680-122491-3 in batch 680-424555.

Dissolved Sodium failed the recovery criteria low for the MS/MSD of sample 680-123031-5 in batch 680-426470.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples MWB-3(S)b (680-122511-1), MWB-20(S)c (680-122511-2), MWB-11(S)c (680-122511-3), MWB-34(S)d (680-122511-4), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-29(S)c (680-122444-9), MWB-27(S)c (680-122444-10), MWB-13(S)c (680-122444-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 03/03/2016, 03/04/2016, 03/06/2016 and 03/07/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 03/08/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5),

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Job ID: 680-122444-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 03/15/2016, 03/16/2016 and 03/17/2016.

Samples MWB-20(S)c (680-122511-2), MWB-34(S)d (680-122511-4) and MWB-2(S)b (680-122444-7) were analyzed at dilutions. Elevated reporting limits (RL) are provided.

Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 680-425400. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA

Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 03/04/2016.

Sample MWB-20(S)c (680-122511-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Ammonia (as N) failed the recovery criteria low for the MS/MSD of sample MWB-20(S)c (680-122511-2) in batch 680-424150.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5), MWB-33(S)d (680-122511-5), Field Blank 01 122444 (680-122444-6), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12), Field Blank 02 122511 (680-122511-12) and MWB-22(S)c (680-122444-13) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/02/2016, 03/03/2016 and 03/04/2016.

Samples SW-3 (680-122511-2)[5X], MWB-34(S)d (680-122511-4)[25X] and MWB-27(S)c (680-122511-10)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL PHOSPHORUS

Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 03/15/2016 and analyzed on 03/16/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORTHOPHOSPHATE AS P

Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for orthophosphate as P in accordance with SM 4500P F. The samples were analyzed on 03/04/2016.

Job ID: 680-122444-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

BIOCHEMICAL OXYGEN DEMAND
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The samples were analyzed on 03/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHEMICAL OXYGEN DEMAND
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 03/15/2016.

Samples SW-1 (680-122511-1)[10X] and SW-3 (680-122511-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL NITROGEN BY CALCULATION
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for total nitrogen by calculation in accordance with a calculated method. The samples were analyzed on 03/14/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL HARDNESS (AS CACO3) BY CALCULATION
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for total hardness (as CaCO3) by calculation in accordance with SM 2340B. The samples were analyzed on 03/15/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for total organic carbon in accordance with SM 5310B. The samples were analyzed on 03/09/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

UNIONIZED AMMONIA
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for unionized ammonia in accordance with FL DEP SOP. The samples were analyzed on 03/14/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FIELD SAMPLING
Samples MWB-2(I)b (680-122444-1), MWB-3(S)b (680-122511-1), SW-1 (680-122594-1), MWB-29(I)c (680-122444-2), MWB-20(S)c (680-122511-2), SW-3 (680-122594-2), MWB-27(I)c (680-122444-3), MWB-11(S)c (680-122511-3), MWB-13(I)c (680-122444-4), MWB-34(S)d (680-122511-4), MWB-12(1)c (680-122444-5), MWB-33(S)d (680-122511-5), MWB-32(S)d (680-122511-6), MWB-2(S)b (680-122444-7), MWB-21(S)c (680-122444-8), MWB-3(I)b (680-122511-8), MWB-29(S)c (680-122444-9), MWB-11(1)(R)c (680-122511-9), MWB-27(S)c (680-122444-10), MWB-34(I)d (680-122511-10), MWB-13(S)c (680-122444-11), MWB-32(I)d (680-122511-11), MWB-12(S)c (680-122444-12) and MWB-22(S)c (680-122444-13) were analyzed for Field Sampling in accordance with approved methodologies. The samples were analyzed on 03/01/2016, 03/02/2016 and 03/03/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY
Samples SW-1 (680-122594-1) and SW-3 (680-122594-2) were analyzed for Low Level Mercury in accordance with EPA Method 1631. The samples were prepared on 03/07/2016 and analyzed on 03/14/2016.

Job ID: 680-122444-1 (Continued)

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Laboratory: TestAmerica Savannah (Continued)

Routine preservation and digestion of samples analyzed by EPA 1631E consists of the addition of 0.8mL bromine monochloride (BrCl) solution. Additional BrCl was required to ensure complete sample oxidation for the following samples: SW-1 (680-122594-1) and SW-3 (680-122594-2). An additional method digestion blank, with like amounts of BrCl, was prepared and analyzed with the samples. The mercury concentration in this additional method blank is less than the reporting limit.

The following samples was diluted due to the nature of the sample matrix: SW-1 (680-122594-1) and SW-3 (680-122594-2). Elevated reporting limits (RLs) are provided. The samples dark, dirty and cloudy.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SUBCONTRACT DATA

Method 9222D Fecal Coliform (Diversified): This method was subcontracted to Diversified Environmental Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method Chlorophyll a (ENCO): This method was subcontracted to ENCO-Orlando. The subcontract laboratory certification is different from that of the facility issuing the final report.

Sample Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-122444-1	MWB-2(I)b	Water	03/01/16 12:43	03/02/16 08:58
680-122444-2	MWB-29(I)c	Water	03/01/16 11:41	03/02/16 08:58
680-122444-3	MWB-27(I)c	Water	03/01/16 10:38	03/02/16 08:58
680-122444-4	MWB-13(I)c	Water	03/01/16 09:33	03/02/16 08:58
680-122444-5	MWB-12(1)c	Water	03/01/16 07:56	03/02/16 08:58
680-122444-6	Field Blank 01 122444	Water	03/01/16 14:15	03/02/16 08:58
680-122444-7	MWB-2(S)b	Water	03/01/16 13:13	03/02/16 08:58
680-122444-8	MWB-21(S)c	Water	03/01/16 13:50	03/02/16 08:58
680-122444-9	MWB-29(S)c	Water	03/01/16 12:11	03/02/16 08:58
680-122444-10	MWB-27(S)c	Water	03/01/16 11:08	03/02/16 08:58
680-122444-11	MWB-13(S)c	Water	03/01/16 10:03	03/02/16 08:58
680-122444-12	MWB-12(S)c	Water	03/01/16 08:25	03/02/16 08:58
680-122444-13	MWB-22(S)c	Water	03/01/16 08:58	03/02/16 08:58
680-122444-14	Trip Blank 01 122444	Water	03/01/16 00:00	03/02/16 08:58
680-122511-1	MWB-3(S)b	Water	03/02/16 07:43	03/03/16 09:42
680-122511-2	MWB-20(S)c	Water	03/02/16 08:51	03/03/16 09:42
680-122511-3	MWB-11(S)c	Water	03/02/16 10:08	03/03/16 09:42
680-122511-4	MWB-34(S)d	Water	03/02/16 11:12	03/03/16 09:42
680-122511-5	MWB-33(S)d	Water	03/02/16 11:45	03/03/16 09:42
680-122511-6	MWB-32(S)d	Water	03/02/16 12:52	03/03/16 09:42
680-122511-7	Trip Blank 122511	Water	03/02/16 00:00	03/03/16 09:42
680-122511-8	MWB-3(I)b	Water	03/02/16 08:16	03/03/16 09:42
680-122511-9	MWB-11(1)(R)c	Water	03/02/16 09:34	03/03/16 09:42
680-122511-10	MWB-34(I)d	Water	03/02/16 10:41	03/03/16 09:42
680-122511-11	MWB-32(I)d	Water	03/02/16 12:20	03/03/16 09:42
680-122511-12	Field Blank 02 122511	Water	03/02/16 13:15	03/03/16 09:42
680-122511-13	Trip Blank 2 122511	Water	03/02/16 00:00	03/03/16 09:42
680-122594-1	SW-1	Water	03/03/16 08:15	03/04/16 09:11
680-122594-2	SW-3	Water	03/03/16 08:45	03/04/16 09:11
680-122594-3	Trip Blank 122594	Water	03/03/16 00:00	03/04/16 09:11

Method Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
1631E	Mercury, Low Level (CVAFS)	EPA	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL SAV
2540 D-2011	Total Suspended Solids Dried at 103-105°C	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
4500 P F-2011	Orthophosphate, Automated Ascorbic Acid Method	SM	TAL SAV
5210B-2011	BOD, 5-Day	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
SM 5310B	Organic Carbon, Total (TOC)	SM	TAL PEN
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
UnionizedNH3	Ammonia, Unionized	FL-DEP	TAL SAV
Field Sampling	Field Sampling	EPA	TAL SAV
9222D Fecal Coliform (Diversified)	General Sub Contract Method	NONE	
Chlorophyll a (ENCO)	General Sub Contract Method	NONE	ENCO

Protocol References:

EPA = US Environmental Protection Agency
FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
NONE = NONE
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Diversified Environmental Laboratories, 3653 Regent Blvd. Suite 509, Jacksonville, FL 32224
ENCO = ENCO-Orlando, 10775 Central Port Drive, Orlando, FL 32824, TEL (407)826-5314
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J	Estimated value; value may not be accurate.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J	Estimated value; value may not be accurate.

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value; value may not be accurate.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-2(I)b — Lab Sample ID: 680-122444-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.7		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	380		100	25	ug/L	1		6020	Total Recoverable
Sodium	4.6		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	16		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.18	I	0.25	0.10	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.60				SU	1		Field Sampling	Total/NA
Field Temperature	21.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	38				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.00				NTU	1		Field Sampling	Total/NA
Water Level	134.48				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(I)c — Lab Sample ID: 680-122444-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.0		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	450		100	25	ug/L	1		6020	Total Recoverable
Sodium	4.1		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	33		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.93				SU	1		Field Sampling	Total/NA
Field Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	44				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.31				NTU	1		Field Sampling	Total/NA
Water Level	130.01				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(I)c — Lab Sample ID: 680-122444-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.5		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	430		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	21		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.13	I	0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.034	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.32				SU	1		Field Sampling	Total/NA
Field Temperature	20.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	54				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.81				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-27(I)c (Continued) — Lab Sample ID: 680-122444-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Water Level	119.89				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(I)c — Lab Sample ID: 680-122444-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	320		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	14		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.10	I	0.25	0.10	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.00				SU	1		Field Sampling	Total/NA
Field Temperature	25.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.45				NTU	1		Field Sampling	Total/NA
Water Level	108.17				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(1)c — Lab Sample ID: 680-122444-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.1		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	320		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.6		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	11		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.11	I	0.25	0.10	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.75				SU	1		Field Sampling	Total/NA
Field Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	44				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.78				NTU	1		Field Sampling	Total/NA
Water Level	113.60				ft	1		Field Sampling	Total/NA

Client Sample ID: Field Blank 01 122444 — Lab Sample ID: 680-122444-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6.0		5.0	5.0	mg/L	1		2540C-2011	Total/NA

Client Sample ID: MWB-2(S)b — Lab Sample ID: 680-122444-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.5		1.0	0.40	mg/L	2		300.0	Total/NA
Arsenic	2.1	I	3.0	1.5	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-2(S)b (Continued) — Lab Sample ID: 680-122444-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	35		5.0	0.61	ug/L	1		6020	Total Recoverable
Beryllium	0.29	I	0.50	0.17	ug/L	1		6020	Total Recoverable
Chromium	13		5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	2.1		0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	3.6	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	5400		100	25	ug/L	1		6020	Total Recoverable
Lead	8.6		2.5	0.98	ug/L	1		6020	Total Recoverable
Nickel	5.6		5.0	1.9	ug/L	1		6020	Total Recoverable
Selenium	10		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	8.4		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	14		10	5.3	ug/L	1		6020	Total Recoverable
Zinc	10	I	20	9.6	ug/L	1		6020	Total Recoverable
Dissolved Arsenic	1.9	I	3.0	1.5	ug/L	1		6020	Dissolved
Dissolved Barium	29		5.0	0.61	ug/L	1		6020	Dissolved
Dissolved Beryllium	0.26	I	0.50	0.17	ug/L	1		6020	Dissolved
Dissolved Chromium	13		5.0	1.6	ug/L	1		6020	Dissolved
Dissolved Cobalt	1.8		0.50	0.12	ug/L	1		6020	Dissolved
Dissolved Copper	3.4	I	5.0	1.7	ug/L	1		6020	Dissolved
Dissolved Iron	4600		100	25	ug/L	1		6020	Dissolved
Dissolved Lead	7.0		2.5	0.98	ug/L	1		6020	Dissolved
Dissolved Nickel	5.4		5.0	1.9	ug/L	1		6020	Dissolved
Dissolved Selenium	8.1		2.5	1.0	ug/L	1		6020	Dissolved
Dissolved Sodium	7.7		0.50	0.17	mg/L	1		6020	Dissolved
Dissolved Vanadium	15		10	5.3	ug/L	1		6020	Dissolved
Mercury	0.098	I	0.20	0.080	ug/L	1		7470A	Total/NA
Total Dissolved Solids	350		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.082		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA
Field Temperature	21.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.4				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	47				umhos/cm	1		Field Sampling	Total/NA
Turbidity	139.3				NTU	1		Field Sampling	Total/NA
Water Level	137.24				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-21(S)c — Lab Sample ID: 680-122444-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.4		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	16		5.0	0.61	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-21(S)c (Continued) — Lab Sample ID: 680-122444-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.6	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	76	I	100	25	ug/L	1		6020	Total Recoverable
Selenium	1.5	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	4.1		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	7.2	I	10	5.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	82		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.43		0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.37		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.90				SU	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	103				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.99				NTU	1		Field Sampling	Total/NA
Water Level	112.06				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(S)c — Lab Sample ID: 680-122444-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.6		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	10		5.0	0.61	ug/L	1		6020	Total Recoverable
Cobalt	0.22	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Iron	370		100	25	ug/L	1		6020	Total Recoverable
Sodium	6.8		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	45		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.16	I	0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.013	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.40				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	59				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.51				NTU	1		Field Sampling	Total/NA
Water Level	130.00				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(S)c — Lab Sample ID: 680-122444-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	35		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	6.9		5.0	0.61	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-27(S)c (Continued) — Lab Sample ID: 680-122444-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.9	I	5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	0.12	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	2.6	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	89	I	100	25	ug/L	1		6020	Total Recoverable
Selenium	1.3	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	26		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	15		10	5.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	180		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	1.2		0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	2.7		0.25	0.050	mg/L	5		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.31				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	246				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.40				NTU	1		Field Sampling	Total/NA
Water Level	120.89				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(S)c — Lab Sample ID: 680-122444-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	5.1		5.0	0.61	ug/L	1		6020	Total Recoverable
Chromium	3.6	I	5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	0.12	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	2.7	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	780		100	25	ug/L	1		6020	Total Recoverable
Nickel	1.9	I	5.0	1.9	ug/L	1		6020	Total Recoverable
Selenium	3.3		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	14		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	27		10	5.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	180		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.20	I	0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.38		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.77				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-13(S)c (Continued) — Lab Sample ID: 680-122444-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	282				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.03				NTU	1		Field Sampling	Total/NA
Water Level	111.83				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(S)c — Lab Sample ID: 680-122444-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	42		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	7.5		5.0	0.61	ug/L	1		6020	Total Recoverable
Chromium	3.2	I	5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	0.14	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	2.2	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	340		100	25	ug/L	1		6020	Total Recoverable
Lead	1.3	I	2.5	0.98	ug/L	1		6020	Total Recoverable
Selenium	14		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	32		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	43		10	5.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	250		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.14	I	0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.98		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.59				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	359				umhos/cm	1		Field Sampling	Total/NA
Turbidity	40.01				NTU	1		Field Sampling	Total/NA
Water Level	113.85				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-22(S)c — Lab Sample ID: 680-122444-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	3.4	I	5.0	0.61	ug/L	1		6020	Total Recoverable
Iron	87	I	100	25	ug/L	1		6020	Total Recoverable
Selenium	1.1	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	10		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	210		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.12	I	0.25	0.10	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-22(S)c (Continued) — Lab Sample ID: 680-122444-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.91				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	319				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.23				NTU	1		Field Sampling	Total/NA
Water Level	114.87				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 01 122444 — Lab Sample ID: 680-122444-14

No Detections.

Client Sample ID: MWB-3(S)b — Lab Sample ID: 680-122511-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	12		5.0	0.61	ug/L	1		6020	Total Recoverable
Iron	1100		100	25	ug/L	1		6020	Total Recoverable
Sodium	5.1		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	62		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.20		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.45				SU	1		Field Sampling	Total/NA
Field Temperature	18.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	57				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.41				NTU	1		Field Sampling	Total/NA
Water Level	146.27				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-20(S)c — Lab Sample ID: 680-122511-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	120		2.5	1.0	mg/L	5		300.0	Total/NA
Barium	30		5.0	0.61	ug/L	1		6020	Total Recoverable
Beryllium	0.17	I	0.50	0.17	ug/L	1		6020	Total Recoverable
Cobalt	0.35	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Iron	220		100	25	ug/L	1		6020	Total Recoverable
Sodium	52		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	230		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	2.3		0.50	0.20	mg/L	2		350.1	Total/NA
Nitrate as N	0.038	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.13				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-20(S)c (Continued) — Lab Sample ID: 680-122511-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	20.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	451				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.27				NTU	1		Field Sampling	Total/NA
Water Level	111.59				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(S)c — Lab Sample ID: 680-122511-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	57		5.0	0.61	ug/L	1		6020	Total Recoverable
Beryllium	0.17	I	0.50	0.17	ug/L	1		6020	Total Recoverable
Cobalt	0.47	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Iron	650		100	25	ug/L	1		6020	Total Recoverable
Sodium	10		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.10	I	0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.41		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.03				SU	1		Field Sampling	Total/NA
Field Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	160				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.63				NTU	1		Field Sampling	Total/NA
Water Level	108.42				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(S)d — Lab Sample ID: 680-122511-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		1.0	0.40	mg/L	2		300.0	Total/NA
Antimony	1.1	I	5.0	0.50	ug/L	1		6020	Total Recoverable
Barium	4.5	I	5.0	0.61	ug/L	1		6020	Total Recoverable
Cobalt	0.27	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	4.1	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	140		100	25	ug/L	1		6020	Total Recoverable
Selenium	7.0		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	33		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	48		10	5.3	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-34(S)d (Continued) — Lab Sample ID: 680-122511-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	27		20	9.6	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	430		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.41		0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	6.5		1.3	0.25	mg/L	25		353.2	Total/NA
Color	None to slt yellow tin				PCU	1		Field Sampling	Total/NA
Field pH	6.26				SU	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	789				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.34				NTU	1		Field Sampling	Total/NA
Water Level	116.58				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-33(S)d — Lab Sample ID: 680-122511-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	9.1		5.0	0.61	ug/L	1		6020	Total Recoverable
Iron	110		100	25	ug/L	1		6020	Total Recoverable
Sodium	8.2		0.50	0.17	mg/L	1		6020	Total Recoverable
Vanadium	22		10	5.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	200		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.55		0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.21		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Slt Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.86				SU	1		Field Sampling	Total/NA
Field Temperature	22.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	314				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.15				NTU	1		Field Sampling	Total/NA
Water Level	115.47				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(S)d — Lab Sample ID: 680-122511-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		0.50	0.20	mg/L	1		300.0	Total/NA
Barium	26		5.0	0.61	ug/L	1		6020	Total Recoverable
Chromium	1.7	I	5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	0.34	I	0.50	0.12	ug/L	1		6020	Total Recoverable
Iron	700		100	25	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-32(S)d (Continued) — Lab Sample ID: 680-122511-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.5		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.61		0.25	0.10	mg/L	1		350.1	Total/NA
Nitrate as N	0.011	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	Brownish/Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.01				SU	1		Field Sampling	Total/NA
Field Temperature	21.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	143				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.82				NTU	1		Field Sampling	Total/NA
Water Level	115.92				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 122511 — Lab Sample ID: 680-122511-7

No Detections.

Client Sample ID: MWB-3(I)b — Lab Sample ID: 680-122511-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.4		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	990		100	25	ug/L	1		6020	Total Recoverable
Sodium	4.1		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	47		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.55				SU	1		Field Sampling	Total/NA
Field Temperature	20.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.17				NTU	1		Field Sampling	Total/NA
Water Level	137.44				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(1)(R)c — Lab Sample ID: 680-122511-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.9		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	420		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	5.0		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA
Field Temperature	24.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	40				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-11(1)(R)c (Continued) — Lab Sample ID: 680-122511-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	3.71				NTU	1		Field Sampling	Total/NA
Water Level	100.64				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(I)d — Lab Sample ID: 680-122511-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	420		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	37		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.03				SU	1		Field Sampling	Total/NA
Field Temperature	25.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	46				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.90				NTU	1		Field Sampling	Total/NA
Water Level	115.32				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(I)d — Lab Sample ID: 680-122511-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		0.50	0.20	mg/L	1		300.0	Total/NA
Iron	400		100	25	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.17	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	68		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	Slt. Whitish Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.24				SU	1		Field Sampling	Total/NA
Field Temperature	21.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	44				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.46				NTU	1		Field Sampling	Total/NA
Water Level	115.37				ft	1		Field Sampling	Total/NA

Client Sample ID: Field Blank 02 122511 — Lab Sample ID: 680-122511-12

No Detections.

Client Sample ID: Trip Blank 2 122511 — Lab Sample ID: 680-122511-13

No Detections.

Client Sample ID: SW-1 — Lab Sample ID: 680-122594-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.064		0.0050	0.0020	ug/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-1 (Continued)

Lab Sample ID: 680-122594-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	61		5.0	0.61	ug/L	1		6020	Total Recoverable
Beryllium	0.21	I	0.50	0.17	ug/L	1		6020	Total Recoverable
Chromium	13		5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	0.53		0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	2.8	I	5.0	1.7	ug/L	1		6020	Total Recoverable
Iron	1300		100	25	ug/L	1		6020	Total Recoverable
Lead	9.3		2.5	0.98	ug/L	1		6020	Total Recoverable
Nickel	2.2	I	5.0	1.9	ug/L	1		6020	Total Recoverable
Selenium	3.9		2.5	1.0	ug/L	1		6020	Total Recoverable
Vanadium	8.5	I	10	5.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	39		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	12		2.0	2.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	330		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.016	I	0.050	0.010	mg/L	1		353.2	Total/NA
Orthophosphate	0.026	I	0.050	0.016	mg/L	1		4500 P F-2011	Total/NA
Biochemical Oxygen Demand	5.6		2.0	2.0	mg/L	1		5210B-2011	Total/NA
Chemical Oxygen Demand	100		100	50	mg/L	10		SM 5220D	Total/NA
Total Organic Carbon	33		1.0	0.50	mg/L	1		SM 5310B	Total/NA
Nitrogen, Total	2.3		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Dark Brown				PCU	1		Field Sampling	Total/NA
Field pH	6.32				SU	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.9				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	99				umhos/cm	1		Field Sampling	Total/NA
Turbidity	114.8				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-3

Lab Sample ID: 680-122594-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.054		0.0050	0.0020	ug/L	1		1631E	Total/NA
Antimony	1.0	I	5.0	0.50	ug/L	1		6020	Total Recoverable
Arsenic	2.4	I	3.0	1.5	ug/L	1		6020	Total Recoverable
Barium	64		5.0	0.61	ug/L	1		6020	Total Recoverable
Beryllium	0.27	I	0.50	0.17	ug/L	1		6020	Total Recoverable
Chromium	15		5.0	1.6	ug/L	1		6020	Total Recoverable
Cobalt	1.1		0.50	0.12	ug/L	1		6020	Total Recoverable
Copper	7.1		5.0	1.7	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: SW-3 (Continued) — Lab Sample ID: 680-122594-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2600		100	25	ug/L	1		6020	Total Recoverable
Lead	17		2.5	0.98	ug/L	1		6020	Total Recoverable
Nickel	6.9		5.0	1.9	ug/L	1		6020	Total Recoverable
Selenium	5.1		2.5	1.0	ug/L	1		6020	Total Recoverable
Vanadium	21		10	5.3	ug/L	1		6020	Total Recoverable
Zinc	23		20	9.6	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	160		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	32		4.0	4.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	440		10	10	mg/L	1		2540C-2011	Total/NA
Nitrate as N	4.3		0.25	0.050	mg/L	5		353.2	Total/NA
Phosphorus	0.21	I	0.50	0.21	mg/L	1		365.4	Total/NA
Biochemical Oxygen Demand	5.6		2.0	2.0	mg/L	1		5210B-2011	Total/NA
Chemical Oxygen Demand	57		50	25	mg/L	5		SM 5220D	Total/NA
Total Organic Carbon	22		1.0	0.50	mg/L	1		SM 5310B	Total/NA
Nitrogen, Total	7.3		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	6.64				SU	1		Field Sampling	Total/NA
Field Temperature	15.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.26				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	519				umhos/cm	1		Field Sampling	Total/NA
Turbidity	173.9				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 122594 — Lab Sample ID: 680-122594-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-2(I)b
Date Collected: 03/01/16 12:43
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.7		0.50	0.20	mg/L			03/15/16 15:49	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	380		100	25	ug/L		03/04/16 09:25	03/07/16 21:25	1
Sodium	4.6		0.50	0.17	mg/L		03/04/16 09:25	03/07/16 21:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		5.0	5.0	mg/L			03/03/16 10:21	1
Ammonia (as N)	0.18	I	0.25	0.10	mg/L			03/04/16 12:12	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/01/16 12:43	1
Field pH	4.60				SU			03/01/16 12:43	1
Field Temperature	21.5				Degrees C			03/01/16 12:43	1
Oxygen, Dissolved	0.2				mg/L			03/01/16 12:43	1
Sheen	No				NONE			03/01/16 12:43	1
Specific Conductance	38				umhos/cm			03/01/16 12:43	1
Turbidity	1.00				NTU			03/01/16 12:43	1
Water Level	134.48				ft			03/01/16 12:43	1

Client Sample ID: MWB-29(I)c
Date Collected: 03/01/16 11:41
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		0.50	0.20	mg/L			03/15/16 16:06	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	450		100	25	ug/L		03/04/16 09:25	03/07/16 21:30	1
Sodium	4.1		0.50	0.17	mg/L		03/04/16 09:25	03/07/16 21:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		5.0	5.0	mg/L			03/03/16 10:21	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:03	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/01/16 11:41	1
Field pH	4.93				SU			03/01/16 11:41	1
Field Temperature	23.4				Degrees C			03/01/16 11:41	1
Oxygen, Dissolved	0.0				mg/L			03/01/16 11:41	1
Sheen	No				NONE			03/01/16 11:41	1
Specific Conductance	44				umhos/cm			03/01/16 11:41	1
Turbidity	7.31				NTU			03/01/16 11:41	1
Water Level	130.01				ft			03/01/16 11:41	1

Client Sample ID: MWB-27(I)c
Date Collected: 03/01/16 10:38
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		0.50	0.20	mg/L			03/15/16 16:24	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	430		100	25	ug/L		03/04/16 09:25	03/07/16 21:35	1
Sodium	3.7		0.50	0.17	mg/L		03/04/16 09:25	03/07/16 21:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	21		5.0	5.0	mg/L			03/03/16 10:21	1
Ammonia (as N)	0.13	I	0.25	0.10	mg/L			03/04/16 12:12	1
Nitrate as N	0.034	I	0.050	0.010	mg/L			03/02/16 16:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/01/16 10:38	1
Field pH	5.32				SU			03/01/16 10:38	1
Field Temperature	20.7				Degrees C			03/01/16 10:38	1
Oxygen, Dissolved	0.1				mg/L			03/01/16 10:38	1
Sheen	No				NONE			03/01/16 10:38	1
Specific Conductance	54				umhos/cm			03/01/16 10:38	1
Turbidity	3.81				NTU			03/01/16 10:38	1
Water Level	119.89				ft			03/01/16 10:38	1

Client Sample ID: MWB-13(I)c
Date Collected: 03/01/16 09:33
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		0.50	0.20	mg/L			03/15/16 16:41	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	320		100	25	ug/L		03/04/16 09:25	03/07/16 21:40	1
Sodium	3.5		0.50	0.17	mg/L		03/04/16 09:25	03/07/16 21:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		5.0	5.0	mg/L			03/03/16 10:21	1
Ammonia (as N)	0.10	I	0.25	0.10	mg/L			03/04/16 12:12	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/01/16 09:33	1
Field pH	5.00				SU			03/01/16 09:33	1
Field Temperature	25.5				Degrees C			03/01/16 09:33	1
Oxygen, Dissolved	0.1				mg/L			03/01/16 09:33	1
Sheen	No				NONE			03/01/16 09:33	1
Specific Conductance	41				umhos/cm			03/01/16 09:33	1
Turbidity	3.45				NTU			03/01/16 09:33	1
Water Level	108.17				ft			03/01/16 09:33	1

Client Sample ID: MWB-12(1)c

Date Collected: 03/01/16 07:56
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		0.50	0.20	mg/L			03/15/16 16:59	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	320		100	25	ug/L		03/04/16 09:25	03/07/16 21:45	1
Sodium	3.6		0.50	0.17	mg/L		03/04/16 09:25	03/07/16 21:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11		5.0	5.0	mg/L			03/03/16 10:21	1
Ammonia (as N)	0.11	I	0.25	0.10	mg/L			03/04/16 12:12	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/01/16 07:56	1
Field pH	4.75				SU			03/01/16 07:56	1
Field Temperature	24.5				Degrees C			03/01/16 07:56	1
Oxygen, Dissolved	0.1				mg/L			03/01/16 07:56	1
Sheen	No				NONE			03/01/16 07:56	1
Specific Conductance	44				umhos/cm			03/01/16 07:56	1
Turbidity	0.78				NTU			03/01/16 07:56	1
Water Level	113.60				ft			03/01/16 07:56	1

Client Sample ID: Field Blank 01 122444

Date Collected: 03/01/16 14:15
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 12:06	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 12:06	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 12:06	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 12:06	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 12:06	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 12:06	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 12:06	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 12:06	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 12:06	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 12:06	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 12:06	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 12:06	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 12:06	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 12:06	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 12:06	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 12:06	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 12:06	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 12:06	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 12:06	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 12:06	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 12:06	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 12:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 12:06	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 12:06	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 12:06	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 12:06	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 12:06	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 12:06	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 12:06	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 12:06	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 12:06	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 12:06	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 12:06	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 12:06	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 12:06	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 12:06	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 12:06	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 12:06	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 12:06	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 12:06	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 12:06	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 12:06	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 12:06	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 12:06	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 12:06	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 12:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 12:06	1

Client Sample ID: Field Blank 01 122444

Lab Sample ID: 680-122444-6

Date Collected: 03/01/16 14:15
Matrix: Water
Date Received: 03/02/16 08:58

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		03/14/16 12:06	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		03/14/16 12:06	1
Dibromofluoromethane (Surr)	99		70 - 130		03/14/16 12:06	1
4-Bromofluorobenzene (Surr)	102		70 - 130		03/14/16 12:06	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.020	0.0049	ug/L		03/03/16 12:23	03/03/16 20:25	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/03/16 12:23	03/03/16 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		60 - 144	03/03/16 12:23	03/03/16 20:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/15/16 17:33	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 18:33	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 18:33	1
Barium	0.61	U	5.0	0.61	ug/L		03/08/16 10:41	03/08/16 18:33	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 18:33	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 18:33	1
Chromium	1.6	U	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 18:33	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 18:33	1
Copper	1.7	U	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 18:33	1
Iron	25	U	100	25	ug/L		03/08/16 10:41	03/08/16 18:33	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 18:33	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 18:33	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 18:33	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 18:33	1
Sodium	0.17	U	0.50	0.17	mg/L		03/08/16 10:41	03/08/16 18:33	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 18:33	1
Vanadium	5.3	U	10	5.3	ug/L		03/08/16 10:41	03/08/16 18:33	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 18:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.0		5.0	5.0	mg/L			03/04/16 12:53	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:21	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:24	1

Client Sample ID: MWB-2(S)b
Date Collected: 03/01/16 13:13
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 13:36	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 13:36	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 13:36	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 13:36	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 13:36	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 13:36	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 13:36	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 13:36	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 13:36	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 13:36	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 13:36	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 13:36	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 13:36	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 13:36	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 13:36	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 13:36	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 13:36	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 13:36	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 13:36	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 13:36	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 13:36	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 13:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 13:36	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 13:36	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 13:36	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 13:36	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 13:36	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 13:36	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 13:36	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 13:36	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 13:36	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 13:36	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 13:36	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 13:36	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 13:36	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 13:36	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 13:36	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 13:36	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 13:36	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 13:36	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 13:36	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 13:36	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 13:36	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 13:36	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 13:36	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 13:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 13:36	1

Client Sample ID: MWB-2(S)b

Date Collected: 03/01/16 13:13
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/14/16 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/14/16 13:36*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/14/16 13:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/14/16 13:36*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.022	0.0054	ug/L		03/03/16 12:16	03/03/16 19:16	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/03/16 12:16	03/03/16 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*101*		*60 - 144*	*03/03/16 12:16*	*03/03/16 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		1.0	0.40	mg/L			03/15/16 17:16	2

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 18:38	1
Arsenic	**2.1**	**I**	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 18:38	1
Barium	**35**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 18:38	1
Beryllium	**0.29**	**I**	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 18:38	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 18:38	1
Chromium	**13**		5.0	1.6	ug/L		03/08/16 10:41	03/08/16 18:38	1
Cobalt	**2.1**		0.50	0.12	ug/L		03/08/16 10:41	03/08/16 18:38	1
Copper	**3.6**	**I**	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 18:38	1
Iron	**5400**		100	25	ug/L		03/08/16 10:41	03/08/16 18:38	1
Lead	**8.6**		2.5	0.98	ug/L		03/08/16 10:41	03/08/16 18:38	1
Nickel	**5.6**		5.0	1.9	ug/L		03/08/16 10:41	03/08/16 18:38	1
Selenium	**10**		2.5	1.0	ug/L		03/08/16 10:41	03/08/16 18:38	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 18:38	1
Sodium	**8.4**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 18:38	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 18:38	1
Vanadium	**14**		10	5.3	ug/L		03/08/16 10:41	03/08/16 18:38	1
Zinc	**10**	**I**	20	9.6	ug/L		03/08/16 10:41	03/08/16 18:38	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Antimony	0.50	U	5.0	0.50	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Arsenic	**1.9**	**I**	3.0	1.5	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Barium	**29**		5.0	0.61	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Beryllium	**0.26**	**I**	0.50	0.17	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Cadmium	0.15	U	0.50	0.15	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Chromium	**13**		5.0	1.6	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Cobalt	**1.8**		0.50	0.12	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Copper	**3.4**	**I**	5.0	1.7	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Iron	**4600**		100	25	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Lead	**7.0**		2.5	0.98	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Nickel	**5.4**		5.0	1.9	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Selenium	**8.1**		2.5	1.0	ug/L		03/23/16 08:41	03/24/16 02:09	1

Client Sample ID: MWB-2(S)b
Date Collected: 03/01/16 13:13
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Silver	0.10	U	1.0	0.10	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Sodium	**7.7**		0.50	0.17	mg/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Thallium	0.49	U	1.0	0.49	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Vanadium	**15**		10	5.3	ug/L		03/23/16 08:41	03/24/16 02:09	1
Dissolved Zinc	9.6	U	20	9.6	ug/L		03/23/16 08:41	03/24/16 02:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.098**	I	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**350**		5.0	5.0	mg/L			03/04/16 12:53	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:22	1
Nitrate as N	**0.082**		0.050	0.010	mg/L			03/02/16 16:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown				PCU			03/01/16 13:13	1
Field pH	**4.97**				SU			03/01/16 13:13	1
Field Temperature	**21.3**				Degrees C			03/01/16 13:13	1
Oxygen, Dissolved	**1.4**				mg/L			03/01/16 13:13	1
Sheen	**No**				NONE			03/01/16 13:13	1
Specific Conductance	**47**				umhos/cm			03/01/16 13:13	1
Turbidity	**139.3**				NTU			03/01/16 13:13	1
Water Level	**137.24**				ft			03/01/16 13:13	1

Client Sample ID: MWB-21(S)c
Date Collected: 03/01/16 13:50
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 13:58	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 13:58	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 13:58	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 13:58	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 13:58	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 13:58	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 13:58	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 13:58	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 13:58	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 13:58	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 13:58	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 13:58	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 13:58	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 13:58	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 13:58	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 13:58	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 13:58	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 13:58	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 13:58	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 13:58	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 13:58	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 13:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 13:58	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 13:58	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 13:58	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 13:58	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 13:58	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 13:58	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 13:58	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 13:58	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 13:58	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 13:58	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 13:58	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 13:58	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 13:58	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 13:58	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 13:58	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 13:58	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 13:58	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 13:58	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 13:58	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 13:58	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 13:58	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 13:58	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 13:58	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 13:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 13:58	1

Client Sample ID: MWB-21(S)c
Date Collected: 03/01/16 13:50
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/14/16 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/14/16 13:58*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/14/16 13:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/14/16 13:58*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.020	0.0051	ug/L		03/03/16 12:23	03/03/16 21:24	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/03/16 12:23	03/03/16 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*107*		*60 - 144*	*03/03/16 12:23*	*03/03/16 21:24*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.4**		0.50	0.20	mg/L			03/16/16 14:31	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 18:54	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 18:54	1
Barium	**16**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 18:54	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 18:54	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 18:54	1
Chromium	1.6	U	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 18:54	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 18:54	1
Copper	**2.6**	**I**	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 18:54	1
Iron	**76**	**I**	100	25	ug/L		03/08/16 10:41	03/08/16 18:54	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 18:54	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 18:54	1
Selenium	**1.5**	**I**	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 18:54	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 18:54	1
Sodium	**4.1**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 18:54	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 18:54	1
Vanadium	**7.2**	**I**	10	5.3	ug/L		03/08/16 10:41	03/08/16 18:54	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 18:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:19	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**82**		5.0	5.0	mg/L			03/04/16 12:53	1
Ammonia (as N)	**0.43**		0.25	0.10	mg/L			03/04/16 12:22	1
Nitrate as N	**0.37**		0.050	0.010	mg/L			03/02/16 16:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/16 13:50	1
Field pH	**4.90**				SU			03/01/16 13:50	1
Field Temperature	**22.6**				Degrees C			03/01/16 13:50	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-21(S)c
Date Collected: 03/01/16 13:50
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-8
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.2				mg/L			03/01/16 13:50	1
Sheen	No				NONE			03/01/16 13:50	1
Specific Conductance	103				umhos/cm			03/01/16 13:50	1
Turbidity	2.99				NTU			03/01/16 13:50	1
Water Level	112.06				ft			03/01/16 13:50	1

8

Client Sample ID: MWB-29(S)c
Date Collected: 03/01/16 12:11
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 14:21	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 14:21	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 14:21	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 14:21	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 14:21	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 14:21	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 14:21	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 14:21	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 14:21	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 14:21	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 14:21	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 14:21	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 14:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 14:21	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 14:21	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 14:21	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 14:21	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 14:21	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 14:21	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 14:21	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 14:21	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 14:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 14:21	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 14:21	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 14:21	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 14:21	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 14:21	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 14:21	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 14:21	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 14:21	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 14:21	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 14:21	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 14:21	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 14:21	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 14:21	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 14:21	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 14:21	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 14:21	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 14:21	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 14:21	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 14:21	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 14:21	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 14:21	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 14:21	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 14:21	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 14:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 14:21	1

Client Sample ID: MWB-29(S)c
Date Collected: 03/01/16 12:11
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/14/16 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*03/14/16 14:21*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/14/16 14:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/14/16 14:21*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.019	0.0049	ug/L		03/03/16 12:23	03/03/16 20:54	1
EDB	0.0021	U	0.019	0.0021	ug/L		03/03/16 12:23	03/03/16 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*108*		*60 - 144*	*03/03/16 12:23*	*03/03/16 20:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.6**		0.50	0.20	mg/L			03/16/16 14:48	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 18:59	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 18:59	1
Barium	**10**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 18:59	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 18:59	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 18:59	1
Chromium	1.6	U	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 18:59	1
Cobalt	**0.22**	I	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 18:59	1
Copper	1.7	U	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 18:59	1
Iron	**370**		100	25	ug/L		03/08/16 10:41	03/08/16 18:59	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 18:59	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 18:59	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 18:59	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 18:59	1
Sodium	**6.8**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 18:59	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 18:59	1
Vanadium	5.3	U	10	5.3	ug/L		03/08/16 10:41	03/08/16 18:59	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 18:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**45**		5.0	5.0	mg/L			03/04/16 12:53	1
Ammonia (as N)	**0.16**	I	0.25	0.10	mg/L			03/04/16 12:03	1
Nitrate as N	**0.013**	I	0.050	0.010	mg/L			03/02/16 16:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/16 12:11	1
Field pH	**4.40**				SU			03/01/16 12:11	1
Field Temperature	**18.4**				Degrees C			03/01/16 12:11	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-29(S)c
Date Collected: 03/01/16 12:11
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.0				mg/L			03/01/16 12:11	1
Sheen	No				NONE			03/01/16 12:11	1
Specific Conductance	59				umhos/cm			03/01/16 12:11	1
Turbidity	1.51				NTU			03/01/16 12:11	1
Water Level	130.00				ft			03/01/16 12:11	1

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Client Sample ID: MWB-27(S)c
Date Collected: 03/01/16 11:08
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 14:43	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 14:43	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 14:43	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 14:43	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 14:43	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 14:43	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 14:43	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 14:43	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 14:43	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 14:43	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 14:43	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 14:43	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 14:43	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 14:43	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 14:43	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 14:43	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 14:43	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 14:43	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 14:43	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 14:43	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 14:43	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 14:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 14:43	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 14:43	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 14:43	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 14:43	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 14:43	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 14:43	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 14:43	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 14:43	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 14:43	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 14:43	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 14:43	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 14:43	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 14:43	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 14:43	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 14:43	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 14:43	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 14:43	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 14:43	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 14:43	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 14:43	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 14:43	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 14:43	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 14:43	1

Client Sample ID: MWB-27(S)c
Date Collected: 03/01/16 11:08
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/14/16 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/14/16 14:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/14/16 14:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/14/16 14:43*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.019	0.0049	ug/L		03/03/16 12:23	03/03/16 21:14	1
EDB	0.0021	U	0.019	0.0021	ug/L		03/03/16 12:23	03/03/16 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*104*		*60 - 144*	*03/03/16 12:23*	*03/03/16 21:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35**		0.50	0.20	mg/L			03/16/16 15:40	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 19:04	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 19:04	1
Barium	**6.9**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 19:04	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 19:04	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 19:04	1
Chromium	**2.9**	I	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 19:04	1
Cobalt	**0.12**	I	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 19:04	1
Copper	**2.6**	I	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 19:04	1
Iron	**89**	I	100	25	ug/L		03/08/16 10:41	03/08/16 19:04	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 19:04	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 19:04	1
Selenium	**1.3**	I	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 19:04	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 19:04	1
Sodium	**26**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 19:04	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 19:04	1
Vanadium	**15**		10	5.3	ug/L		03/08/16 10:41	03/08/16 19:04	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 19:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**180**		10	10	mg/L			03/04/16 12:53	1
Ammonia (as N)	**1.2**		0.25	0.10	mg/L			03/04/16 12:22	1
Nitrate as N	**2.7**		0.25	0.050	mg/L			03/02/16 16:19	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/16 11:08	1
Field pH	**5.31**				SU			03/01/16 11:08	1
Field Temperature	**18.4**				Degrees C			03/01/16 11:08	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-27(S)c
Date Collected: 03/01/16 11:08
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.1				mg/L			03/01/16 11:08	1
Sheen	No				NONE			03/01/16 11:08	1
Specific Conductance	246				umhos/cm			03/01/16 11:08	1
Turbidity	3.40				NTU			03/01/16 11:08	1
Water Level	120.89				ft			03/01/16 11:08	1

Client Sample ID: MWB-13(S)c
Date Collected: 03/01/16 10:03
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 15:06	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 15:06	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 15:06	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 15:06	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:06	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 15:06	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 15:06	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 15:06	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 15:06	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 15:06	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 15:06	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:06	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 15:06	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 15:06	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 15:06	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 15:06	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 15:06	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 15:06	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 15:06	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 15:06	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 15:06	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 15:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 15:06	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 15:06	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 15:06	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 15:06	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 15:06	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 15:06	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 15:06	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 15:06	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 15:06	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 15:06	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:06	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 15:06	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 15:06	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 15:06	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 15:06	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 15:06	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 15:06	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:06	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 15:06	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 15:06	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 15:06	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 15:06	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 15:06	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 15:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 15:06	1

Client Sample ID: MWB-13(S)c

Date Collected: 03/01/16 10:03
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-11

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/14/16 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/14/16 15:06*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/14/16 15:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/14/16 15:06*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/03/16 12:23	03/03/16 21:04	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/03/16 12:23	03/03/16 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*111*		*60 - 144*	*03/03/16 12:23*	*03/03/16 21:04*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		0.50	0.20	mg/L			03/16/16 15:58	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 19:09	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 19:09	1
Barium	**5.1**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 19:09	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 19:09	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 19:09	1
Chromium	**3.6**	I	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 19:09	1
Cobalt	**0.12**	I	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 19:09	1
Copper	**2.7**	I	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 19:09	1
Iron	**780**		100	25	ug/L		03/08/16 10:41	03/08/16 19:09	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 19:09	1
Nickel	**1.9**	I	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 19:09	1
Selenium	**3.3**		2.5	1.0	ug/L		03/08/16 10:41	03/08/16 19:09	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 19:09	1
Sodium	**14**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 19:09	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 19:09	1
Vanadium	**27**		10	5.3	ug/L		03/08/16 10:41	03/08/16 19:09	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 19:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**180**		10	10	mg/L			03/04/16 12:53	1
Ammonia (as N)	**0.20**	I	0.25	0.10	mg/L			03/04/16 12:22	1
Nitrate as N	**0.38**		0.050	0.010	mg/L			03/02/16 16:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Yellow Tint**				PCU			03/01/16 10:03	1
Field pH	**5.77**				SU			03/01/16 10:03	1
Field Temperature	**21.6**				Degrees C			03/01/16 10:03	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-13(S)c
Date Collected: 03/01/16 10:03
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-11
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.4				mg/L			03/01/16 10:03	1
Sheen	No				NONE			03/01/16 10:03	1
Specific Conductance	282				umhos/cm			03/01/16 10:03	1
Turbidity	11.03				NTU			03/01/16 10:03	1
Water Level	111.83				ft			03/01/16 10:03	1

Client Sample ID: MWB-12(S)c
Date Collected: 03/01/16 08:25
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 15:28	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 15:28	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 15:28	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 15:28	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:28	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 15:28	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 15:28	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 15:28	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 15:28	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 15:28	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 15:28	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:28	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 15:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 15:28	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 15:28	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 15:28	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 15:28	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 15:28	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 15:28	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 15:28	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 15:28	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 15:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 15:28	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 15:28	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 15:28	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 15:28	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 15:28	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 15:28	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 15:28	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 15:28	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 15:28	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 15:28	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:28	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 15:28	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 15:28	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 15:28	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 15:28	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 15:28	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 15:28	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:28	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 15:28	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 15:28	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 15:28	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 15:28	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 15:28	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 15:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 15:28	1

Client Sample ID: MWB-12(S)c

Date Collected: 03/01/16 08:25
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/14/16 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/14/16 15:28*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/14/16 15:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/14/16 15:28*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/03/16 12:16	03/03/16 19:26	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/03/16 12:16	03/03/16 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*100*		*60 - 144*	*03/03/16 12:16*	*03/03/16 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42**		0.50	0.20	mg/L			03/16/16 22:55	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 19:14	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 19:14	1
Barium	**7.5**		5.0	0.61	ug/L		03/08/16 10:41	03/08/16 19:14	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 19:14	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 19:14	1
Chromium	**3.2**	I	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 19:14	1
Cobalt	**0.14**	I	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 19:14	1
Copper	**2.2**	I	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 19:14	1
Iron	**340**		100	25	ug/L		03/08/16 10:41	03/08/16 19:14	1
Lead	**1.3**	I	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 19:14	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 19:14	1
Selenium	**14**		2.5	1.0	ug/L		03/08/16 10:41	03/08/16 19:14	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 19:14	1
Sodium	**32**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 19:14	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 19:14	1
Vanadium	**43**		10	5.3	ug/L		03/08/16 10:41	03/08/16 19:14	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 19:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**250**		10	10	mg/L			03/04/16 12:53	1
Ammonia (as N)	**0.14**	I	0.25	0.10	mg/L			03/04/16 12:22	1
Nitrate as N	**0.98**		0.050	0.010	mg/L			03/02/16 16:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			03/01/16 08:25	1
Field pH	**5.59**				SU			03/01/16 08:25	1
Field Temperature	**21.6**				Degrees C			03/01/16 08:25	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-12(S)c
Date Collected: 03/01/16 08:25
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-12
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	1.3				mg/L			03/01/16 08:25	1
Sheen	No				NONE			03/01/16 08:25	1
Specific Conductance	359				umhos/cm			03/01/16 08:25	1
Turbidity	40.01				NTU			03/01/16 08:25	1
Water Level	113.85				ft			03/01/16 08:25	1

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Client Sample ID: MWB-22(S)c
Date Collected: 03/01/16 08:58
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 15:50	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 15:50	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 15:50	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 15:50	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:50	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 15:50	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 15:50	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 15:50	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 15:50	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 15:50	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 15:50	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 15:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 15:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 15:50	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 15:50	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 15:50	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 15:50	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 15:50	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 15:50	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 15:50	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 15:50	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 15:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 15:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 15:50	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 15:50	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 15:50	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 15:50	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 15:50	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 15:50	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 15:50	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 15:50	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 15:50	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 15:50	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 15:50	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 15:50	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 15:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 15:50	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 15:50	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 15:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 15:50	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 15:50	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 15:50	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 15:50	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 15:50	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 15:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 15:50	1

Client Sample ID: MWB-22(S)c
Date Collected: 03/01/16 08:58
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/14/16 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/14/16 15:50*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/14/16 15:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/14/16 15:50*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0048	U	0.019	0.0048	ug/L		03/03/16 12:23	03/03/16 21:34	1
EDB	0.0021	U	0.019	0.0021	ug/L		03/03/16 12:23	03/03/16 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*102*		*60 - 144*	*03/03/16 12:23*	*03/03/16 21:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		0.50	0.20	mg/L			03/16/16 12:11	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 19:19	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 19:19	1
Barium	**3.4**	**I**	5.0	0.61	ug/L		03/08/16 10:41	03/08/16 19:19	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 19:19	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 19:19	1
Chromium	1.6	U	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 19:19	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 19:19	1
Copper	1.7	U	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 19:19	1
Iron	**87**	**I**	100	25	ug/L		03/08/16 10:41	03/08/16 19:19	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 19:19	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 19:19	1
Selenium	**1.1**	**I**	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 19:19	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 19:19	1
Sodium	**10**		0.50	0.17	mg/L		03/08/16 10:41	03/08/16 19:19	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 19:19	1
Vanadium	5.3	U	10	5.3	ug/L		03/08/16 10:41	03/08/16 19:19	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**210**		10	10	mg/L			03/04/16 12:53	1
Ammonia (as N)	**0.12**	**I**	0.25	0.10	mg/L			03/04/16 12:31	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:33	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/16 08:58	1
Field pH	**5.91**				SU			03/01/16 08:58	1
Field Temperature	**21.6**				Degrees C			03/01/16 08:58	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-22(S)c
Date Collected: 03/01/16 08:58
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-13
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.1				mg/L			03/01/16 08:58	1
Sheen	No				NONE			03/01/16 08:58	1
Specific Conductance	319				umhos/cm			03/01/16 08:58	1
Turbidity	1.23				NTU			03/01/16 08:58	1
Water Level	114.87				ft			03/01/16 08:58	1

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Client Sample ID: Trip Blank 01 122444
Date Collected: 03/01/16 00:00
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 11:44	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 11:44	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 11:44	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 11:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 11:44	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 11:44	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 11:44	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 11:44	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 11:44	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 11:44	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 11:44	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 11:44	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 11:44	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 11:44	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 11:44	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 11:44	1
1,2-Dibromo-3-Chloropropane	.1.1	U	5.0	1.1	ug/L			03/14/16 11:44	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 11:44	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 11:44	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 11:44	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 11:44	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 11:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 11:44	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 11:44	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 11:44	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 11:44	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 11:44	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 11:44	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 11:44	1
Methylene Chloride	2.5	U J	5.0	2.5	ug/L			03/14/16 11:44	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 11:44	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 11:44	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 11:44	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 11:44	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 11:44	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 11:44	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 11:44	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 11:44	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 11:44	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 11:44	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 11:44	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 11:44	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 11:44	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 11:44	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 11:44	1
Vinyl chloride	0.50	U J	1.0	0.50	ug/L			03/14/16 11:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 11:44	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: Trip Blank 01 122444
Date Collected: 03/01/16 00:00
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		03/14/16 11:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		03/14/16 11:44	1
Dibromofluoromethane (Surr)	97		70 - 130		03/14/16 11.44	1
4-Bromofluorobenzene (Surr)	102		70 - 130		03/14/16 11:44	1

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Client Sample ID: MWB-3(S)b
Date Collected: 03/02/16 07:43
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 17:23	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 17:23	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 17:23	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 17:23	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:23	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 17:23	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 17:23	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 17:23	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 17:23	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 17:23	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 17:23	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:23	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 17:23	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 17:23	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 17:23	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 17:23	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 17:23	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 17:23	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 17:23	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 17:23	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 17:23	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 17:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 17:23	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 17:23	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 17:23	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 17:23	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 17:23	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 17:23	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 17:23	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 17:23	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 17:23	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 17:23	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:23	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 17:23	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 17:23	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 17:23	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 17:23	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 17:23	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 17:23	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:23	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 17:23	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 17:23	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 17:23	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 17:23	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 17:23	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 17:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 17:23	1

Client Sample ID: MWB-3(S)b
Date Collected: 03/02/16 07:43
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/15/16 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*03/15/16 17:23*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/15/16 17:23*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/16 17:23*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/07/16 11:46	03/07/16 18:28	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*109*		*60 - 144*	*03/07/16 11:46*	*03/07/16 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.1**		0.50	0.20	mg/L			03/16/16 17:07	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:11	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:11	1
Barium	**12**		5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:11	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:11	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:11	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:11	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:11	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:11	1
Iron	**1100**		100	25	ug/L		03/09/16 10:13	03/09/16 21:11	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:11	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:11	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:11	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:11	1
Sodium	**5.1**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:11	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:11	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 21:11	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**62**		5.0	5.0	mg/L			03/06/16 11:02	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:31	1
Nitrate as N	**0.20**		0.050	0.010	mg/L			03/03/16 15:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/02/16 07:43	1
Field pH	**4.45**				SU			03/02/16 07:43	1
Field Temperature	**18.7**				Degrees C			03/02/16 07:43	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-3(S)b
Date Collected: 03/02/16 07:43
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-1
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.2				mg/L			03/02/16 07:43	1
Sheen	No				NONE			03/02/16 07:43	1
Specific Conductance	57				umhos/cm			03/02/16 07:43	1
Turbidity	3.41				NTU			03/02/16 07:43	1
Water Level	146.27				ft			03/02/16 07:43	1

8

Client Sample ID: MWB-20(S)c
Date Collected: 03/02/16 08:51
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 17:44	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 17:44	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 17:44	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 17:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:44	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 17:44	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 17:44	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 17:44	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 17:44	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 17:44	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 17:44	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:44	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 17:44	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 17:44	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 17:44	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 17:44	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 17:44	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 17:44	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 17:44	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 17:44	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 17:44	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 17:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 17:44	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 17:44	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 17:44	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 17:44	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 17:44	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 17:44	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 17:44	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 17:44	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 17:44	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 17:44	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:44	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 17:44	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 17:44	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 17:44	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 17:44	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 17:44	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 17:44	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:44	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 17:44	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 17:44	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 17:44	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 17:44	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 17:44	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 17:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 17:44	1

Client Sample ID: MWB-20(S)c
Date Collected: 03/02/16 08:51
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/15/16 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*03/15/16 17:44*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 17:44*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*03/15/16 17:44*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.020	0.0051	ug/L		03/07/16 11:46	03/07/16 18:38	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*102*		*60 - 144*	*03/07/16 11:46*	*03/07/16 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		2.5	1.0	mg/L			03/17/16 14:29	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:16	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:16	1
Barium	**30**		5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:16	1
Beryllium	**0.17**	I	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:16	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:16	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:16	1
Cobalt	**0.35**	I	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:16	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:16	1
Iron	**220**		100	25	ug/L		03/09/16 10:13	03/09/16 21:16	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:16	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:16	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:16	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:16	1
Sodium	**52**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:16	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:16	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 21:16	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**230**		10	10	mg/L			03/06/16 11:02	1
Ammonia (as N)	**2.3**		0.50	0.20	mg/L			03/04/16 15:29	2
Nitrate as N	**0.038**	I	0.050	0.010	mg/L			03/03/16 15:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/02/16 08:51	1
Field pH	**4.13**				SU			03/02/16 08:51	1
Field Temperature	**20.6**				Degrees C			03/02/16 08:51	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-20(S)c
Date Collected: 03/02/16 08:51
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-2
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.1				mg/L			03/02/16 08:51	1
Sheen	No				NONE			03/02/16 08:51	1
Specific Conductance	451				umhos/cm			03/02/16 08:51	1
Turbidity	4.27				NTU			03/02/16 08:51	1
Water Level	111.59				ft			03/02/16 08:51	1

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Client Sample ID: MWB-11(S)c
Date Collected: 03/02/16 10:08
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 18:05	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 18:05	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 18:05	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 18:05	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:05	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 18:05	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 18:05	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 18:05	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 18:05	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 18:05	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 18:05	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:05	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 18:05	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 18:05	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 18:05	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 18:05	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 18:05	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 18:05	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 18:05	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 18:05	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 18:05	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 18:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 18:05	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 18:05	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 18:05	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 18:05	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 18:05	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 18:05	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 18:05	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 18:05	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 18:05	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 18:05	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:05	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 18:05	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 18:05	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 18:05	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 18:05	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 18:05	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 18:05	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:05	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 18:05	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 18:05	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 18:05	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 18:05	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 18:05	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 18:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 18:05	1

Client Sample ID: MWB-11(S)c
Date Collected: 03/02/16 10:08
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/15/16 18:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*03/15/16 18:05*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 18:05*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*03/15/16 18:05*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.020	0.0049	ug/L		03/07/16 11:46	03/07/16 15:41	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*112*		*60 - 144*	*03/07/16 11:46*	*03/07/16 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17**		0.50	0.20	mg/L			03/16/16 17:42	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:21	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:21	1
Barium	**57**		5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:21	1
Beryllium	**0.17**	I	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:21	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:21	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:21	1
Cobalt	**0.47**	I	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:21	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:21	1
Iron	**650**		100	25	ug/L		03/09/16 10:13	03/09/16 21:21	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:21	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:21	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:21	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:21	1
Sodium	**10**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:21	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:21	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 21:21	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110**		5.0	5.0	mg/L			03/06/16 11:02	1
Ammonia (as N)	**0.10**	I	0.25	0.10	mg/L			03/04/16 12:50	1
Nitrate as N	**0.41**		0.050	0.010	mg/L			03/03/16 15:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/02/16 10:08	1
Field pH	**4.03**				SU			03/02/16 10:08	1
Field Temperature	**21.4**				Degrees C			03/02/16 10:08	1

Client Sample ID: MWB-11(S)c
Date Collected: 03/02/16 10:08
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-3
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.1				mg/L			03/02/16 10:08	1
Sheen	No				NONE			03/02/16 10:08	1
Specific Conductance	160				umhos/cm			03/02/16 10:08	1
Turbidity	1.63				NTU			03/02/16 10:08	1
Water Level	108.42				ft			03/02/16 10:08	1

8

Client Sample ID: MWB-34(S)d
Date Collected: 03/02/16 11:12
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 18:26	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 18:26	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 18:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 18:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 18:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 18:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 18:26	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 18:26	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 18:26	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 18:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 18:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 18:26	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 18:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 18:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 18:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 18:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 18:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 18:26	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 18:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 18:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 18:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 18:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 18:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 18:26	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 18:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 18:26	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 18:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 18:26	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 18:26	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 18:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 18:26	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 18:26	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 18:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 18:26	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 18:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 18:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 18:26	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 18:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 18:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 18:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 18:26	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 18:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 18:26	1

Client Sample ID: MWB-34(S)d
Date Collected: 03/02/16 11:12
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/15/16 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*03/15/16 18:26*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 18:26*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/16 18:26*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.020	0.0049	ug/L		03/07/16 11:46	03/07/16 18:08	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*106*		*60 - 144*	*03/07/16 11:46*	*03/07/16 18:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		1.0	0.40	mg/L			03/16/16 17:59	2

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**I**	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:26	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:26	1
Barium	**4.5**	**I**	5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:26	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:26	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:26	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:26	1
Cobalt	**0.27**	**I**	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:26	1
Copper	**4.1**	**I**	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:26	1
Iron	**140**		100	25	ug/L		03/09/16 10:13	03/09/16 21:26	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:26	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:26	1
Selenium	**7.0**		2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:26	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:26	1
Sodium	**33**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:26	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:26	1
Vanadium	**48**		10	5.3	ug/L		03/09/16 10:13	03/09/16 21:26	1
Zinc	**27**		20	9.6	ug/L		03/09/16 10:13	03/09/16 21:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**430**		10	10	mg/L			03/06/16 11:02	1
Ammonia (as N)	**0.41**		0.25	0.10	mg/L			03/04/16 12:50	1
Nitrate as N	**6.5**		1.3	0.25	mg/L			03/03/16 15:00	25

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None to slt yellow tin**				PCU			03/02/16 11:12	1
Field pH	**6.26**				SU			03/02/16 11:12	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-34(S)d
Date Collected: 03/02/16 11:12
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	22.0				Degrees C			03/02/16 11:12	1
Oxygen, Dissolved	0.3				mg/L			03/02/16 11:12	1
Sheen	No				NONE			03/02/16 11:12	1
Specific Conductance	789				umhos/cm			03/02/16 11:12	1
Turbidity	2.34				NTU			03/02/16 11:12	1
Water Level	116.58				ft			03/02/16 11:12	1

8

Client Sample ID: MWB-33(S)d
Date Collected: 03/02/16 11:45
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 18:47	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 18:47	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 18:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 18:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 18:47	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 18:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 18:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 18:47	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 18:47	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 18:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 18:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 18:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 18:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 18:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 18:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 18:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 18:47	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 18:47	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 18:47	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 18:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 18:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 18:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 18:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 18:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 18:47	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 18:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 18:47	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 18:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 18:47	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 18:47	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 18:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 18:47	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 18:47	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 18:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 18:47	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 18:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 18:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 18:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 18:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 18:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 18:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 18:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 18:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 18:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 18:47	1

Client Sample ID: MWB-33(S)d
Date Collected: 03/02/16 11:45
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/15/16 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*03/15/16 18:47*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 18:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/16 18:47*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.020	0.0051	ug/L		03/07/16 11:46	03/07/16 17:59	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*104*		*60 - 144*	*03/07/16 11:46*	*03/07/16 17:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.6**		0.50	0.20	mg/L			03/16/16 18:17	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:31	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:31	1
Barium	**9.1**		5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:31	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:31	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:31	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:31	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:31	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:31	1
Iron	**110**		100	25	ug/L		03/09/16 10:13	03/09/16 21:31	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:31	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:31	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:31	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:31	1
Sodium	**8.2**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:31	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:31	1
Vanadium	**22**		10	5.3	ug/L		03/09/16 10:13	03/09/16 21:31	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**200**		10	10	mg/L			03/06/16 11:02	1
Ammonia (as N)	**0.55**		0.25	0.10	mg/L			03/04/16 12:50	1
Nitrate as N	**0.21**		0.050	0.010	mg/L			03/03/16 15:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Slt Yellow Tint**				PCU			03/02/16 11:45	1
Field pH	**5.86**				SU			03/02/16 11:45	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-33(S)d
Date Collected: 03/02/16 11:45
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	22.3				Degrees C			03/02/16 11:45	1
Oxygen, Dissolved	0.2				mg/L			03/02/16 11:45	1
Sheen	No				NONE			03/02/16 11:45	1
Specific Conductance	314				umhos/cm			03/02/16 11:45	1
Turbidity	4.15				NTU			03/02/16 11:45	1
Water Level	115.47				ft			03/02/16 11:45	1

8

Client Sample ID: MWB-32(S)d
Date Collected: 03/02/16 12:52
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 19:08	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 19:08	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 19:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 19:08	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 19:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 19:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 19:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 19:08	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 19:08	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 19:08	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 19:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 19:08	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 19:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 19:08	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 19:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 19:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 19:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 19:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 19:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 19:08	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 19:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 19:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 19:08	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 19:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 19:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 19:08	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 19:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 19:08	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 19:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 19:08	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 19:08	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 19:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 19:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 19:08	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 19:08	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 19:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 19:08	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 19:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 19:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 19:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 19:08	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 19:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 19:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 19:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 19:08	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 19:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 19:08	1

Client Sample ID: MWB-32(S)d

Date Collected: 03/02/16 12:52
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/15/16 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*03/15/16 19:08*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 19:08*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*03/15/16 19:08*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/07/16 11:46	03/07/16 18:48	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/07/16 11:46	03/07/16 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*110*		*60 - 144*	*03/07/16 11:46*	*03/07/16 18:48*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		0.50	0.20	mg/L			03/16/16 19:09	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:36	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:36	1
Barium	**26**		5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:36	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:36	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:36	1
Chromium	**1.7**	I	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:36	1
Cobalt	**0.34**	I	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:36	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:36	1
Iron	**700**		100	25	ug/L		03/09/16 10:13	03/09/16 21:36	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:36	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:36	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:36	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:36	1
Sodium	**8.5**		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:36	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:36	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 21:36	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**120**		5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	**0.61**		0.25	0.10	mg/L			03/04/16 12:50	1
Nitrate as N	**0.011**	I	0.050	0.010	mg/L			03/03/16 15:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brownish/Yellow Tint**				PCU			03/02/16 12:52	1
Field pH	**5.01**				SU			03/02/16 12:52	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: MWB-32(S)d
Date Collected: 03/02/16 12:52
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-6
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	21.5				Degrees C			03/02/16 12:52	1
Oxygen, Dissolved	0.1				mg/L			03/02/16 12:52	1
Sheen	No				NONE			03/02/16 12:52	1
Specific Conductance	143				umhos/cm			03/02/16 12:52	1
Turbidity	6.82				NTU			03/02/16 12:52	1
Water Level	115.92				ft			03/02/16 12:52	1

Client Sample ID: Trip Blank 122511
Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 16:20	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 16:20	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 16:20	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 16:20	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 16:20	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 16:20	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 16:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 16:20	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 16:20	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 16:20	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 16:20	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 16:20	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 16:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 16:20	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 16:20	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 16:20	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 16:20	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 16:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 16:20	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 16:20	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 16:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 16:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 16:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 16:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 16:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 16:20	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 16:20	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 16:20	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 16:20	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 16:20	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 16:20	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 16:20	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 16:20	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 16:20	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 16:20	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 16:20	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 16:20	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 16:20	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 16:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 16:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 16:20	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 16:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 16:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 16:20	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 16:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 16:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 16:20	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: Trip Blank 122511
Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		03/15/16 16:20	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/15/16 16:20	1
Dibromofluoromethane (Surr)	97		70 - 130		03/15/16 16:20	1
4-Bromofluorobenzene (Surr)	91		70 - 130		03/15/16 16:20	1

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Client Sample ID: MWB-3(I)b
Date Collected: 03/02/16 08:16
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-8
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		0.50	0.20	mg/L			03/16/16 19:27	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	990		100	25	ug/L		03/09/16 10:13	03/09/16 21:46	1
Sodium	4.1		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	47		5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:59	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/02/16 08:16	1
Field pH	4.55				SU			03/02/16 08:16	1
Field Temperature	20.7				Degrees C			03/02/16 08:16	1
Oxygen, Dissolved	0.0				mg/L			03/02/16 08:16	1
Sheen	No				NONE			03/02/16 08:16	1
Specific Conductance	41				umhos/cm			03/02/16 08:16	1
Turbidity	0.17				NTU			03/02/16 08:16	1
Water Level	137.44				ft			03/02/16 08:16	1

Client Sample ID: MWB-11(1)(R)c
Date Collected: 03/02/16 09:34
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-9
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		0.50	0.20	mg/L			03/16/16 19:44	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	420		100	25	ug/L		03/09/16 10:13	03/09/16 22:02	1
Sodium	3.7		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 22:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0		5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:59	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/02/16 09:34	1
Field pH	4.77				SU			03/02/16 09:34	1
Field Temperature	24.3				Degrees C			03/02/16 09:34	1
Oxygen, Dissolved	0.0				mg/L			03/02/16 09:34	1
Sheen	No				NONE			03/02/16 09:34	1
Specific Conductance	40				umhos/cm			03/02/16 09:34	1
Turbidity	3.71				NTU			03/02/16 09:34	1
Water Level	100.64				ft			03/02/16 09:34	1

Client Sample ID: MWB-34(I)d
Date Collected: 03/02/16 10:41
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-10
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		0.50	0.20	mg/L			03/16/16 21:46	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	420		100	25	ug/L		03/09/16 10:13	03/09/16 22:07	1
Sodium	3.7		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 22:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	37		5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:59	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/02/16 10:41	1
Field pH	5.03				SU			03/02/16 10:41	1
Field Temperature	25.6				Degrees C			03/02/16 10:41	1
Oxygen, Dissolved	0.0				mg/L			03/02/16 10:41	1
Sheen	No				NONE			03/02/16 10:41	1
Specific Conductance	46				umhos/cm			03/02/16 10:41	1
Turbidity	4.90				NTU			03/02/16 10:41	1
Water Level	115.32				ft			03/02/16 10:41	1

Client Sample ID: MWB-32(I)d
Date Collected: 03/02/16 12:20
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-11
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		0.50	0.20	mg/L			03/16/16 22:38	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	400		100	25	ug/L		03/09/16 10:13	03/09/16 22:12	1
Sodium	3.4		0.50	0.17	mg/L		03/09/16 10:13	03/09/16 22:12	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:59	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Slt. Whitish Tint				PCU			03/02/16 12:20	1
Field pH	5.24				SU			03/02/16 12:20	1
Field Temperature	21.9				Degrees C			03/02/16 12:20	1
Oxygen, Dissolved	0.1				mg/L			03/02/16 12:20	1
Sheen	No				NONE			03/02/16 12:20	1
Specific Conductance	44				umhos/cm			03/02/16 12:20	1
Turbidity	10.46				NTU			03/02/16 12:20	1
Water Level	115.37				ft			03/02/16 12:20	1

Client Sample ID: Field Blank 02 122511

Lab Sample ID: 680-122511-12

Date Collected: 03/02/16 13:15

Matrix: Water

Date Received: 03/03/16 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 17:02	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 17:02	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 17:02	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 17:02	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:02	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 17:02	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 17:02	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 17:02	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 17:02	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 17:02	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 17:02	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 17:02	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 17:02	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 17:02	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 17:02	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 17:02	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 17:02	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 17:02	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 17:02	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 17:02	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 17:02	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 17:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 17:02	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 17:02	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 17:02	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 17:02	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 17:02	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 17:02	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 17:02	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 17:02	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 17:02	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 17:02	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:02	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 17:02	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 17:02	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 17:02	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 17:02	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 17:02	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 17:02	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 17:02	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 17:02	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 17:02	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 17:02	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 17:02	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 17:02	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 17:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 17:02	1

Client Sample ID: Field Blank 02 122511

Lab Sample ID: 680-122511-12

Date Collected: 03/02/16 13:15

Matrix: Water

Date Received: 03/03/16 09:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/15/16 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*03/15/16 17:02*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*03/15/16 17:02*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/16 17:02*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0049	U	0.020	0.0049	ug/L		03/07/16 11:46	03/07/16 17:19	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*106*		*60 - 144*	*03/07/16 11:46*	*03/07/16 17:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/16/16 20:01	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 21:41	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 21:41	1
Barium	0.61	U	5.0	0.61	ug/L		03/09/16 10:13	03/09/16 21:41	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 21:41	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 21:41	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 21:41	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 21:41	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 21:41	1
Iron	25	U	100	25	ug/L		03/09/16 10:13	03/09/16 21:41	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 21:41	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 21:41	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 21:41	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 21:41	1
Sodium	0.17	U	0.50	0.17	mg/L		03/09/16 10:13	03/09/16 21:41	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 21:41	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 21:41	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 21:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 19:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/07/16 10:58	1
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 12:59	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:36	1

Client Sample ID: Trip Blank 2 122511
Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/15/16 16:41	1
Acrylonitrile	10	U	20	10	ug/L			03/15/16 16:41	1
Benzene	0.43	U	1.0	0.43	ug/L			03/15/16 16:41	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/15/16 16:41	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/15/16 16:41	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/15/16 16:41	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/15/16 16:41	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/15/16 16:41	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/15/16 16:41	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/15/16 16:41	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/15/16 16:41	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/15/16 16:41	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/15/16 16:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/15/16 16:41	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/15/16 16:41	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/15/16 16:41	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/15/16 16:41	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/15/16 16:41	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/15/16 16:41	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/15/16 16:41	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/15/16 16:41	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/15/16 16:41	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/15/16 16:41	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/15/16 16:41	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/15/16 16:41	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/15/16 16:41	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/15/16 16:41	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/15/16 16:41	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/15/16 16:41	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/15/16 16:41	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/15/16 16:41	1
Styrene	0.27	U	1.0	0.27	ug/L			03/15/16 16:41	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 16:41	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/15/16 16:41	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/15/16 16:41	1
Toluene	0.48	U	1.0	0.48	ug/L			03/15/16 16:41	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/15/16 16:41	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/15/16 16:41	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/15/16 16:41	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/15/16 16:41	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/15/16 16:41	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/15/16 16:41	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/15/16 16:41	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/15/16 16:41	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/15/16 16:41	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/15/16 16:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/15/16 16:41	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: Trip Blank 2 122511
Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		03/15/16 16:41	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/15/16 16:41	1
Dibromofluoromethane (Surr)	94		70 - 130		03/15/16 16:41	1
4-Bromofluorobenzene (Surr)	90		70 - 130		03/15/16 16:41	1

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Client Sample ID: SW-1
Date Collected: 03/03/16 08:15
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	U	20	14	ug/L			03/16/16 17:33	2
Acrylonitrile	20	U	40	20	ug/L			03/16/16 17:33	2
Benzene	0.86	U	2.0	0.86	ug/L			03/16/16 17:33	2
Bromoform	0.86	U	2.0	0.86	ug/L			03/16/16 17:33	2
Bromomethane	5.0	U	10	5.0	ug/L			03/16/16 17:33	2
2-Butanone (MEK)	6.8	U	20	6.8	ug/L			03/16/16 17:33	2
Carbon disulfide	2.0	U	4.0	2.0	ug/L			03/16/16 17:33	2
Carbon tetrachloride	0.66	U	2.0	0.66	ug/L			03/16/16 17:33	2
Chlorobenzene	0.52	U	2.0	0.52	ug/L			03/16/16 17:33	2
Chlorobromomethane	0.90	U	2.0	0.90	ug/L			03/16/16 17:33	2
Chlorodibromomethane	0.64	U	2.0	0.64	ug/L			03/16/16 17:33	2
Chloroethane	5.0	U	10	5.0	ug/L			03/16/16 17:33	2
Chloroform	1.0	U	2.0	1.0	ug/L			03/16/16 17:33	2
Chloromethane	0.80	U	2.0	0.80	ug/L			03/16/16 17:33	2
cis-1,2-Dichloroethene	0.82	U	2.0	0.82	ug/L			03/16/16 17:33	2
cis-1,3-Dichloropropene	0.80	U	2.0	0.80	ug/L			03/16/16 17:33	2
1,2-Dibromo-3-Chloropropane	2.2	U	10	2.2	ug/L			03/16/16 17:33	2
Dibromomethane	0.70	U	2.0	0.70	ug/L			03/16/16 17:33	2
1,2-Dichlorobenzene	0.74	U	2.0	0.74	ug/L			03/16/16 17:33	2
1,4-Dichlorobenzene	0.92	U	2.0	0.92	ug/L			03/16/16 17:33	2
Dichlorobromomethane	0.88	U	2.0	0.88	ug/L			03/16/16 17:33	2
1,1-Dichloroethane	0.76	U	2.0	0.76	ug/L			03/16/16 17:33	2
1,2-Dichloroethane	1.0	U	2.0	1.0	ug/L			03/16/16 17:33	2
1,1-Dichloroethene	0.72	U	2.0	0.72	ug/L			03/16/16 17:33	2
1,2-Dichloropropane	1.3	U	2.0	1.3	ug/L			03/16/16 17:33	2
Ethylbenzene	0.66	U	2.0	0.66	ug/L			03/16/16 17:33	2
Ethylene Dibromide	0.88	U	2.0	0.88	ug/L			03/16/16 17:33	2
2-Hexanone	4.0	U	20	4.0	ug/L			03/16/16 17:33	2
Iodomethane	10	U J	20	10	ug/L			03/16/16 17:33	2
Methylene Chloride	5.0	U	10	5.0	ug/L			03/16/16 17:33	2
4-Methyl-2-pentanone (MIBK)	4.2	U	20	4.2	ug/L			03/16/16 17:33	2
Styrene	0.54	U	2.0	0.54	ug/L			03/16/16 17:33	2
1,1,1,2-Tetrachloroethane	0.74	U	2.0	0.74	ug/L			03/16/16 17:33	2
1,1,2,2-Tetrachloroethane	1.2	U	2.0	1.2	ug/L			03/16/16 17:33	2
Tetrachloroethene	1.5	U	2.0	1.5	ug/L			03/16/16 17:33	2
Toluene	0.96	U	2.0	0.96	ug/L			03/16/16 17:33	2
trans-1,4-Dichloro-2-butene	1.0	U	4.0	1.0	ug/L			03/16/16 17:33	2
trans-1,2-Dichloroethene	0.74	U	2.0	0.74	ug/L			03/16/16 17:33	2
trans-1,3-Dichloropropene	0.84	U	2.0	0.84	ug/L			03/16/16 17:33	2
1,1,1-Trichloroethane	0.74	U	2.0	0.74	ug/L			03/16/16 17:33	2
1,1,2-Trichloroethane	0.66	U	2.0	0.66	ug/L			03/16/16 17:33	2
Trichloroethene	0.96	U	2.0	0.96	ug/L			03/16/16 17:33	2
Trichlorofluoromethane	0.84	U	2.0	0.84	ug/L			03/16/16 17:33	2
1,2,3-Trichloropropane	0.78	U	2.0	0.78	ug/L			03/16/16 17:33	2
Vinyl acetate	1.6	U	4.0	1.6	ug/L			03/16/16 17:33	2
Vinyl chloride	1.0	U	2.0	1.0	ug/L			03/16/16 17:33	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			03/16/16 17:33	2

Client Sample ID: SW-1
Date Collected: 03/03/16 08:15
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*89*		*70 - 130*		*03/16/16 17:33*	*2*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*03/16/16 17:33*	*2*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*03/16/16 17:33*	*2*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/16/16 17:33*	*2*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.022	0.0056	ug/L		03/07/16 11:54	03/07/16 21:15	1
EDB	0.0025	U	0.022	0.0025	ug/L		03/07/16 11:54	03/07/16 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*111*		*60 - 144*	*03/07/16 11:54*	*03/07/16 21:15*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**		0.0050	0.0020	ug/L		03/07/16 16:50	03/14/16 14:04	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/10/16 01:31	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/10/16 01:31	1
Barium	**61**		5.0	0.61	ug/L		03/09/16 10:13	03/10/16 01:31	1
Beryllium	**0.21**	I	0.50	0.17	ug/L		03/09/16 10:13	03/10/16 01:31	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/10/16 01:31	1
Chromium	**13**		5.0	1.6	ug/L		03/09/16 10:13	03/10/16 01:31	1
Cobalt	**0.53**		0.50	0.12	ug/L		03/09/16 10:13	03/10/16 01:31	1
Copper	**2.8**	I	5.0	1.7	ug/L		03/09/16 10:13	03/10/16 01:31	1
Iron	**1300**		100	25	ug/L		03/09/16 10:13	03/10/16 01:31	1
Lead	**9.3**		2.5	0.98	ug/L		03/09/16 10:13	03/10/16 01:31	1
Nickel	**2.2**	I	5.0	1.9	ug/L		03/09/16 10:13	03/10/16 01:31	1
Selenium	**3.9**		2.5	1.0	ug/L		03/09/16 10:13	03/10/16 01:31	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/10/16 01:31	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/10/16 01:31	1
Vanadium	**8.5**	I	10	5.3	ug/L		03/09/16 10:13	03/10/16 01:31	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/10/16 01:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**39**		3.3	3.3	mg/L			03/15/16 14:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**12**		2.0	2.0	mg/L			03/08/16 10:28	1
Total Dissolved Solids	**330**		5.0	5.0	mg/L			03/07/16 10:58	1
Nitrate as N	**0.016**	I	0.050	0.010	mg/L			03/04/16 15:22	1
Phosphorus	0.41	U	1.0	0.41	mg/L		03/15/16 10:25	03/16/16 11:38	1
Orthophosphate	**0.026**	I	0.050	0.016	mg/L			03/04/16 14:47	1
Biochemical Oxygen Demand	**5.6**		2.0	2.0	mg/L			03/04/16 12:00	1
Chemical Oxygen Demand	**100**		100	50	mg/L			03/15/16 11:44	10
Total Organic Carbon	**33**		1.0	0.50	mg/L			03/09/16 16:47	1
Nitrogen, Total	**2.3**		0.25	0.25	mg/L			03/14/16 15:42	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: SW-1
Date Collected: 03/03/16 08:15
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Unionized Ammonia	0.000017	U	0.000017	0.000017	mg/L			03/14/16 16:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Dark Brown				PCU			03/03/16 08:15	1
Field pH	6.32				SU			03/03/16 08:15	1
Field Temperature	11.7				Degrees C			03/03/16 08:15	1
Oxygen, Dissolved	7.9				mg/L			03/03/16 08:15	1
Sheen	No				NONE			03/03/16 08:15	1
Specific Conductance	99				umhos/cm			03/03/16 08:15	1
Turbidity	114.8				NTU			03/03/16 08:15	1

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Client Sample ID: SW-3
Date Collected: 03/03/16 08:45
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	U	20	14	ug/L			03/16/16 17:54	2
Acrylonitrile	20	U	40	20	ug/L			03/16/16 17:54	2
Benzene	0.86	U	2.0	0.86	ug/L			03/16/16 17:54	2
Bromoform	0.86	U	2.0	0.86	ug/L			03/16/16 17:54	2
Bromomethane	5.0	U	10	5.0	ug/L			03/16/16 17:54	2
2-Butanone (MEK)	6.8	U	20	6.8	ug/L			03/16/16 17:54	2
Carbon disulfide	2.0	U	4.0	2.0	ug/L			03/16/16 17:54	2
Carbon tetrachloride	0.66	U	2.0	0.66	ug/L			03/16/16 17:54	2
Chlorobenzene	0.52	U	2.0	0.52	ug/L			03/16/16 17:54	2
Chlorobromomethane	0.90	U	2.0	0.90	ug/L			03/16/16 17:54	2
Chlorodibromomethane	0.64	U	2.0	0.64	ug/L			03/16/16 17:54	2
Chloroethane	5.0	U	10	5.0	ug/L			03/16/16 17:54	2
Chloroform	1.0	U	2.0	1.0	ug/L			03/16/16 17:54	2
Chloromethane	0.80	U	2.0	0.80	ug/L			03/16/16 17:54	2
cis-1,2-Dichloroethene	0.82	U	2.0	0.82	ug/L			03/16/16 17:54	2
cis-1,3-Dichloropropene	0.80	U	2.0	0.80	ug/L			03/16/16 17:54	2
1,2-Dibromo-3-Chloropropane	2.2	U	10	2.2	ug/L			03/16/16 17:54	2
Dibromomethane	0.70	U	2.0	0.70	ug/L			03/16/16 17:54	2
1,2-Dichlorobenzene	0.74	U	2.0	0.74	ug/L			03/16/16 17:54	2
1,4-Dichlorobenzene	0.92	U	2.0	0.92	ug/L			03/16/16 17:54	2
Dichlorobromomethane	0.88	U	2.0	0.88	ug/L			03/16/16 17:54	2
1,1-Dichloroethane	0.76	U	2.0	0.76	ug/L			03/16/16 17:54	2
1,2-Dichloroethane	1.0	U	2.0	1.0	ug/L			03/16/16 17:54	2
1,1-Dichloroethene	0.72	U	2.0	0.72	ug/L			03/16/16 17:54	2
1,2-Dichloropropane	1.3	U	2.0	1.3	ug/L			03/16/16 17:54	2
Ethylbenzene	0.66	U	2.0	0.66	ug/L			03/16/16 17:54	2
Ethylene Dibromide	0.88	U	2.0	0.88	ug/L			03/16/16 17:54	2
2-Hexanone	4.0	U	20	4.0	ug/L			03/16/16 17:54	2
Iodomethane	10	U J	20	10	ug/L			03/16/16 17:54	2
Methylene Chloride	5.0	U	10	5.0	ug/L			03/16/16 17:54	2
4-Methyl-2-pentanone (MIBK)	4.2	U	20	4.2	ug/L			03/16/16 17:54	2
Styrene	0.54	U	2.0	0.54	ug/L			03/16/16 17:54	2
1,1,1,2-Tetrachloroethane	0.74	U	2.0	0.74	ug/L			03/16/16 17:54	2
1,1,2,2-Tetrachloroethane	1.2	U	2.0	1.2	ug/L			03/16/16 17:54	2
Tetrachloroethene	1.5	U	2.0	1.5	ug/L			03/16/16 17:54	2
Toluene	0.96	U	2.0	0.96	ug/L			03/16/16 17:54	2
trans-1,4-Dichloro-2-butene	1.0	U	4.0	1.0	ug/L			03/16/16 17:54	2
trans-1,2-Dichloroethene	0.74	U	2.0	0.74	ug/L			03/16/16 17:54	2
trans-1,3-Dichloropropene	0.84	U	2.0	0.84	ug/L			03/16/16 17:54	2
1,1,1-Trichloroethane	0.74	U	2.0	0.74	ug/L			03/16/16 17:54	2
1,1,2-Trichloroethane	0.66	U	2.0	0.66	ug/L			03/16/16 17:54	2
Trichloroethene	0.96	U	2.0	0.96	ug/L			03/16/16 17:54	2
Trichlorofluoromethane	0.84	U	2.0	0.84	ug/L			03/16/16 17:54	2
1,2,3-Trichloropropane	0.78	U	2.0	0.78	ug/L			03/16/16 17:54	2
Vinyl acetate	1.6	U	4.0	1.6	ug/L			03/16/16 17:54	2
Vinyl chloride	1.0	U	2.0	1.0	ug/L			03/16/16 17:54	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			03/16/16 17:54	2

Client Sample ID: SW-3
Date Collected: 03/03/16 08:45
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*90*		*70 - 130*		*03/16/16 17:54*	*2*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*03/16/16 17:54*	*2*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*03/16/16 17:54*	*2*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*03/16/16 17:54*	*2*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/07/16 11:54	03/07/16 22:14	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/07/16 11:54	03/07/16 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	*108*		*60 - 144*	*03/07/16 11:54*	*03/07/16 22:14*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.0050	0.0020	ug/L		03/07/16 16:50	03/14/16 14:12	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	I	5.0	0.50	ug/L		03/09/16 10:13	03/10/16 01:36	1
Arsenic	**2.4**	I	3.0	1.5	ug/L		03/09/16 10:13	03/10/16 01:36	1
Barium	**64**		5.0	0.61	ug/L		03/09/16 10:13	03/10/16 01:36	1
Beryllium	**0.27**	I	0.50	0.17	ug/L		03/09/16 10:13	03/10/16 01:36	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/10/16 01:36	1
Chromium	**15**		5.0	1.6	ug/L		03/09/16 10:13	03/10/16 01:36	1
Cobalt	**1.1**		0.50	0.12	ug/L		03/09/16 10:13	03/10/16 01:36	1
Copper	**7.1**		5.0	1.7	ug/L		03/09/16 10:13	03/10/16 01:36	1
Iron	**2600**		100	25	ug/L		03/09/16 10:13	03/10/16 01:36	1
Lead	**17**		2.5	0.98	ug/L		03/09/16 10:13	03/10/16 01:36	1
Nickel	**6.9**		5.0	1.9	ug/L		03/09/16 10:13	03/10/16 01:36	1
Selenium	**5.1**		2.5	1.0	ug/L		03/09/16 10:13	03/10/16 01:36	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/10/16 01:36	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/10/16 01:36	1
Vanadium	**21**		10	5.3	ug/L		03/09/16 10:13	03/10/16 01:36	1
Zinc	**23**		20	9.6	ug/L		03/09/16 10:13	03/10/16 01:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**160**		3.3	3.3	mg/L			03/15/16 14:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**32**		4.0	4.0	mg/L			03/08/16 10:28	1
Total Dissolved Solids	**440**		10	10	mg/L			03/07/16 10:58	1
Nitrate as N	**4.3**		0.25	0.050	mg/L			03/04/16 15:23	5
Phosphorus	**0.21**	I	0.50	0.21	mg/L		03/15/16 10:25	03/16/16 11:37	1
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/04/16 14:47	1
Biochemical Oxygen Demand	**5.6**		2.0	2.0	mg/L			03/04/16 12:00	1
Chemical Oxygen Demand	**57**		50	25	mg/L			03/15/16 11:44	5
Total Organic Carbon	**22**		1.0	0.50	mg/L			03/09/16 16:59	1
Nitrogen, Total	**7.3**		0.25	0.25	mg/L			03/14/16 15:42	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: SW-3
Date Collected: 03/03/16 08:45
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Unionized Ammonia	0.000017	U	0.000017	0.000017	mg/L			03/14/16 16:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown				PCU			03/03/16 08:45	1
Field pH	6.64				SU			03/03/16 08:45	1
Field Temperature	15.7				Degrees C			03/03/16 08:45	1
Oxygen, Dissolved	4.26				mg/L			03/03/16 08:45	1
Sheen	No				NONE			03/03/16 08:45	1
Specific Conductance	519				umhos/cm			03/03/16 08:45	1
Turbidity	173.9				NTU			03/03/16 08:45	1

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Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: Trip Blank 122594
Date Collected: 03/03/16 00:00
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/16/16 11:14	1
Acrylonitrile	10	U	20	10	ug/L			03/16/16 11:14	1
Benzene	0.43	U	1.0	0.43	ug/L			03/16/16 11:14	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/16/16 11:14	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/16/16 11:14	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/16/16 11:14	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/16/16 11:14	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/16/16 11:14	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/16/16 11:14	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/16/16 11:14	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/16/16 11:14	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/16/16 11:14	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/16/16 11:14	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/16/16 11:14	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/16/16 11:14	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/16/16 11:14	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/16/16 11:14	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/16/16 11:14	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/16/16 11:14	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/16/16 11:14	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/16/16 11:14	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/16/16 11:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/16/16 11:14	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/16/16 11:14	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/16/16 11:14	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/16/16 11:14	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/16/16 11:14	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/16/16 11:14	1
Iodomethane	5.0	U J	10	5.0	ug/L			03/16/16 11:14	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/16/16 11:14	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/16/16 11:14	1
Styrene	0.27	U	1.0	0.27	ug/L			03/16/16 11:14	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/16/16 11:14	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/16/16 11:14	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/16/16 11:14	1
Toluene	0.48	U	1.0	0.48	ug/L			03/16/16 11:14	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/16/16 11:14	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/16/16 11:14	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/16/16 11:14	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/16/16 11:14	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/16/16 11:14	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/16/16 11:14	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/16/16 11:14	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/16/16 11:14	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/16/16 11:14	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/16/16 11:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/16/16 11:14	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Client Sample ID: Trip Blank 122594
Date Collected: 03/03/16 00:00
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		03/16/16 11:14	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/16/16 11:14	1
Dibromofluoromethane (Surr)	96		70 - 130		03/16/16 11:14	1
4-Bromofluorobenzene (Surr)	91		70 - 130		03/16/16 11:14	1

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-424907/8
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/14/16 10:49	1
Acrylonitrile	10	U	20	10	ug/L			03/14/16 10:49	1
Benzene	0.43	U	1.0	0.43	ug/L			03/14/16 10:49	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/14/16 10:49	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/14/16 10:49	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/14/16 10:49	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/14/16 10:49	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/14/16 10:49	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/14/16 10:49	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/14/16 10:49	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/14/16 10:49	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/14/16 10:49	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/14/16 10:49	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/14/16 10:49	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/14/16 10:49	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/14/16 10:49	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/14/16 10:49	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/14/16 10:49	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/14/16 10:49	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/14/16 10:49	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/14/16 10:49	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/14/16 10:49	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/14/16 10:49	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/14/16 10:49	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/14/16 10:49	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/14/16 10:49	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/14/16 10:49	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/14/16 10:49	1
Iodomethane	5.0	U	10	5.0	ug/L			03/14/16 10:49	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/14/16 10:49	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/14/16 10:49	1
Styrene	0.27	U	1.0	0.27	ug/L			03/14/16 10:49	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 10:49	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/14/16 10:49	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/14/16 10:49	1
Toluene	0.48	U	1.0	0.48	ug/L			03/14/16 10:49	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/14/16 10:49	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/14/16 10:49	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/14/16 10:49	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/14/16 10:49	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/14/16 10:49	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/14/16 10:49	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/14/16 10:49	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/14/16 10:49	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/14/16 10:49	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/14/16 10:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/14/16 10:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-424907/8
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/14/16 10:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/14/16 10:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/14/16 10:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/14/16 10:49*	*1*

Lab Sample ID: LCS 680-424907/4
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	246		ug/L		98	60 - 154
Acrylonitrile	500	506		ug/L		101	72 - 132
Benzene	50.0	49.1		ug/L		98	73 - 131
Bromoform	50.0	51.9		ug/L		104	69 - 135
Bromomethane	50.0	51.4		ug/L		103	20 - 180
2-Butanone (MEK)	250	261		ug/L		104	75 - 133
Carbon disulfide	50.0	46.1		ug/L		92	73 - 127
Carbon tetrachloride	50.0	52.0		ug/L		104	75 - 130
Chlorobenzene	50.0	46.4		ug/L		93	80 - 120
Chlorobromomethane	50.0	48.8		ug/L		98	77 - 122
Chlorodibromomethane	50.0	52.6		ug/L		105	71 - 136
Chloroethane	50.0	35.4		ug/L		71	50 - 151
Chloroform	50.0	49.2		ug/L		98	79 - 122
Chloromethane	50.0	50.8		ug/L		102	63 - 126
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 122
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	80 - 133
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/L		106	59 - 141
Dibromomethane	50.0	51.7		ug/L		103	80 - 122
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
Dichlorobromomethane	50.0	51.0		ug/L		102	77 - 129
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.7		ug/L		95	75 - 130
1,1-Dichloroethene	50.0	51.5		ug/L		103	74 - 125
1,2-Dichloropropane	50.0	49.8		ug/L		100	80 - 123
Ethylbenzene	50.0	49.4		ug/L		99	80 - 120
Ethylene Dibromide	50.0	50.7		ug/L		101	77 - 131
2-Hexanone	250	267		ug/L		107	70 - 141
Iodomethane	50.0	50.5		ug/L		101	15 - 162
Methylene Chloride	50.0	63.0		ug/L		126	76 - 129
4-Methyl-2-pentanone (MIBK)	250	268		ug/L		107	75 - 135
Styrene	50.0	51.3		ug/L		103	80 - 122
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/L		92	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	72 - 128
Tetrachloroethene	50.0	53.6		ug/L		107	77 - 123
Toluene	50.0	51.2		ug/L		102	80 - 122
trans-1,4-Dichloro-2-butene	50.0	50.7		ug/L		101	55 - 147
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-424907/4
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	55.5		ug/L		111	74 - 140
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	74 - 128
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	79 - 125
Trichloroethene	50.0	54.9		ug/L		110	80 - 123
Trichlorofluoromethane	50.0	51.7		ug/L		103	58 - 145
1,2,3-Trichloropropane	50.0	51.1		ug/L		102	70 - 132
Vinyl acetate	100	123		ug/L		123	15 - 190
Vinyl chloride	50.0	37.8		ug/L		76	68 - 132
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-424907/5
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	292		ug/L		117	60 - 154	17	40
Acrylonitrile	500	539		ug/L		108	72 - 132	6	30
Benzene	50.0	49.3		ug/L		99	73 - 131	0	30
Bromoform	50.0	56.4		ug/L		113	69 - 135	8	20
Bromomethane	50.0	50.1		ug/L		100	20 - 180	2	40
2-Butanone (MEK)	250	270		ug/L		108	75 - 133	4	30
Carbon disulfide	50.0	49.5		ug/L		99	73 - 127	7	20
Carbon tetrachloride	50.0	50.5		ug/L		101	75 - 130	3	20
Chlorobenzene	50.0	48.5		ug/L		97	80 - 120	4	20
Chlorobromomethane	50.0	50.0		ug/L		100	77 - 122	2	20
Chlorodibromomethane	50.0	54.6		ug/L		109	71 - 136	4	20
Chloroethane	50.0	30.7		ug/L		61	50 - 151	14	30
Chloroform	50.0	50.2		ug/L		100	79 - 122	2	20
Chloromethane	50.0	49.1		ug/L		98	63 - 126	3	30
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 122	1	20
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	80 - 133	4	20
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/L		109	59 - 141	2	30
Dibromomethane	50.0	54.6		ug/L		109	80 - 122	5	20
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	80 - 120	5	20
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	3	20
Dichlorobromomethane	50.0	52.2		ug/L		104	77 - 129	2	20
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	50.0	49.3		ug/L		99	75 - 130	3	20
1,1-Dichloroethene	50.0	50.2		ug/L		100	74 - 125	2	20
1,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 123	4	20
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120	2	20
Ethylene Dibromide	50.0	53.4		ug/L		107	77 - 131	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-424907/5
Matrix: Water
Analysis Batch: 424907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	250	286		ug/L		114	70 - 141	7	40
Iodomethane	50.0	50.5		ug/L		101	15 - 162	0	30
Methylene Chloride	50.0	65.8	J	ug/L		132	76 - 129	4	20
4-Methyl-2-pentanone (MIBK)	250	283		ug/L		113	75 - 135	5	30
Styrene	50.0	52.7		ug/L		105	80 - 122	3	20
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	80 - 120	3	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	72 - 128	8	20
Tetrachloroethene	50.0	54.1		ug/L		108	77 - 123	1	20
Toluene	50.0	51.5		ug/L		103	80 - 122	1	20
trans-1,4-Dichloro-2-butene	50.0	54.8		ug/L		110	55 - 147	8	40
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	57.4		ug/L		115	74 - 140	3	20
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	74 - 128	1	20
1,1,2-Trichloroethane	50.0	55.1		ug/L		110	79 - 125	6	20
Trichloroethene	50.0	54.3		ug/L		109	80 - 123	1	20
Trichlorofluoromethane	50.0	50.7		ug/L		101	58 - 145	2	30
1,2,3-Trichloropropane	50.0	54.8		ug/L		110	70 - 132	7	30
Vinyl acetate	100	129		ug/L		129	15 - 190	5	50
Vinyl chloride	50.0	53.0	J	ug/L		106	68 - 132	34	30
Xylenes, Total	100	104		ug/L		104	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-425168/8
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	U	20	14	ug/L			03/15/16 15:59	2
Acrylonitrile	20	U	40	20	ug/L			03/15/16 15:59	2
Benzene	0.86	U	2.0	0.86	ug/L			03/15/16 15:59	2
Bromoform	0.86	U	2.0	0.86	ug/L			03/15/16 15:59	2
Bromomethane	5.0	U	10	5.0	ug/L			03/15/16 15:59	2
2-Butanone (MEK)	6.8	U	20	6.8	ug/L			03/15/16 15:59	2
Carbon disulfide	2.0	U	4.0	2.0	ug/L			03/15/16 15:59	2
Carbon tetrachloride	0.66	U	2.0	0.66	ug/L			03/15/16 15:59	2
Chlorobenzene	0.52	U	2.0	0.52	ug/L			03/15/16 15:59	2
Chlorobromomethane	0.90	U	2.0	0.90	ug/L			03/15/16 15:59	2
Chlorodibromomethane	0.64	U	2.0	0.64	ug/L			03/15/16 15:59	2
Chloroethane	5.0	U	10	5.0	ug/L			03/15/16 15:59	2
Chloroform	1.0	U	2.0	1.0	ug/L			03/15/16 15:59	2
Chloromethane	0.80	U	2.0	0.80	ug/L			03/15/16 15:59	2
cis-1,2-Dichloroethene	0.82	U	2.0	0.82	ug/L			03/15/16 15:59	2
cis-1,3-Dichloropropene	0.80	U	2.0	0.80	ug/L			03/15/16 15:59	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-425168/8
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.2	U	10	2.2	ug/L			03/15/16 15:59	2
Dibromomethane	0.70	U	2.0	0.70	ug/L			03/15/16 15:59	2
1,2-Dichlorobenzene	0.74	U	2.0	0.74	ug/L			03/15/16 15:59	2
1,4-Dichlorobenzene	0.92	U	2.0	0.92	ug/L			03/15/16 15:59	2
Dichlorobromomethane	0.88	U	2.0	0.88	ug/L			03/15/16 15:59	2
1,1-Dichloroethane	0.76	U	2.0	0.76	ug/L			03/15/16 15:59	2
1,2-Dichloroethane	1.0	U	2.0	1.0	ug/L			03/15/16 15:59	2
1,1-Dichloroethene	0.72	U	2.0	0.72	ug/L			03/15/16 15:59	2
1,2-Dichloropropane	1.3	U	2.0	1.3	ug/L			03/15/16 15:59	2
Ethylbenzene	0.66	U	2.0	0.66	ug/L			03/15/16 15:59	2
Ethylene Dibromide	0.88	U	2.0	0.88	ug/L			03/15/16 15:59	2
2-Hexanone	4.0	U	20	4.0	ug/L			03/15/16 15:59	2
Iodomethane	10	U	20	10	ug/L			03/15/16 15:59	2
Methylene Chloride	5.0	U	10	5.0	ug/L			03/15/16 15:59	2
4-Methyl-2-pentanone (MIBK)	4.2	U	20	4.2	ug/L			03/15/16 15:59	2
Styrene	0.54	U	2.0	0.54	ug/L			03/15/16 15:59	2
1,1,1,2-Tetrachloroethane	0.74	U	2.0	0.74	ug/L			03/15/16 15:59	2
1,1,2,2-Tetrachloroethane	1.2	U	2.0	1.2	ug/L			03/15/16 15:59	2
Tetrachloroethene	1.5	U	2.0	1.5	ug/L			03/15/16 15:59	2
Toluene	0.96	U	2.0	0.96	ug/L			03/15/16 15:59	2
trans-1,4-Dichloro-2-butene	1.0	U	4.0	1.0	ug/L			03/15/16 15:59	2
trans-1,2-Dichloroethene	0.74	U	2.0	0.74	ug/L			03/15/16 15:59	2
trans-1,3-Dichloropropene	0.84	U	2.0	0.84	ug/L			03/15/16 15:59	2
1,1,1-Trichloroethane	0.74	U	2.0	0.74	ug/L			03/15/16 15:59	2
1,1,2-Trichloroethane	0.66	U	2.0	0.66	ug/L			03/15/16 15:59	2
Trichloroethene	0.96	U	2.0	0.96	ug/L			03/15/16 15:59	2
Trichlorofluoromethane	0.84	U	2.0	0.84	ug/L			03/15/16 15:59	2
1,2,3-Trichloropropane	0.78	U	2.0	0.78	ug/L			03/15/16 15:59	2
Vinyl acetate	1.6	U	4.0	1.6	ug/L			03/15/16 15:59	2
Vinyl chloride	1.0	U	2.0	1.0	ug/L			03/15/16 15:59	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			03/15/16 15:59	2

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/15/16 15:59*	*2*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*03/15/16 15:59*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/16 15:59*	*2*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*03/15/16 15:59*	*2*

Lab Sample ID: LCS 680-425168/4
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	238		ug/L		95	60 - 154
Acrylonitrile	500	499		ug/L		100	72 - 132
Benzene	50.0	48.2		ug/L		96	73 - 131
Bromoform	50.0	58.7		ug/L		117	69 - 135
Bromomethane	50.0	42.2		ug/L		84	20 - 180

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-425168/4
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	250	258		ug/L		103	75 - 133
Carbon disulfide	50.0	48.0		ug/L		96	73 - 127
Carbon tetrachloride	50.0	48.8		ug/L		98	75 - 130
Chlorobenzene	50.0	48.6		ug/L		97	80 - 120
Chlorobromomethane	50.0	49.5		ug/L		99	77 - 122
Chlorodibromomethane	50.0	49.5		ug/L		99	71 - 136
Chloroethane	50.0	50.5		ug/L		101	50 - 151
Chloroform	50.0	47.6		ug/L		95	79 - 122
Chloromethane	50.0	57.1		ug/L		114	63 - 126
cis-1,2-Dichloroethene	50.0	46.3		ug/L		93	80 - 122
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	80 - 133
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	59 - 141
Dibromomethane	50.0	48.0		ug/L		96	80 - 122
1,2-Dichlorobenzene	50.0	46.9		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	80 - 120
Dichlorobromomethane	50.0	47.9		ug/L		96	77 - 129
1,1-Dichloroethane	50.0	48.2		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	47.9		ug/L		96	75 - 130
1,1-Dichloroethene	50.0	49.9		ug/L		100	74 - 125
1,2-Dichloropropane	50.0	46.9		ug/L		94	80 - 123
Ethylbenzene	50.0	47.9		ug/L		96	80 - 120
Ethylene Dibromide	50.0	48.1		ug/L		96	77 - 131
2-Hexanone	250	256		ug/L		103	70 - 141
Iodomethane	50.0	48.7		ug/L		97	15 - 162
Methylene Chloride	50.0	48.8		ug/L		98	76 - 129
4-Methyl-2-pentanone (MIBK)	250	247		ug/L		99	75 - 135
Styrene	50.0	51.6		ug/L		103	80 - 122
1,1,1,2-Tetrachloroethane	50.0	50.4		ug/L		101	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 128
Tetrachloroethene	50.0	55.1		ug/L		110	77 - 123
Toluene	50.0	48.5		ug/L		97	80 - 122
trans-1,4-Dichloro-2-butene	50.0	58.1		ug/L		116	55 - 147
trans-1,2-Dichloroethene	50.0	49.0		ug/L		98	78 - 123
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	74 - 140
1,1,1-Trichloroethane	50.0	47.8		ug/L		96	74 - 128
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	79 - 125
Trichloroethene	50.0	49.9		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	50.1		ug/L		100	58 - 145
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	70 - 132
Vinyl acetate	100	106		ug/L		106	15 - 190
Vinyl chloride	50.0	58.4		ug/L		117	68 - 132
Xylenes, Total	100	96.6		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 680-425168/5
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	257		ug/L		103	60 - 154	8	40
Acrylonitrile	500	524		ug/L		105	72 - 132	5	30
Benzene	50.0	48.3		ug/L		97	73 - 131	0	30
Bromoform	50.0	60.8		ug/L		122	69 - 135	4	20
Bromomethane	50.0	43.5		ug/L		87	20 - 180	3	40
2-Butanone (MEK)	250	274		ug/L		110	75 - 133	6	30
Carbon disulfide	50.0	48.4		ug/L		97	73 - 127	1	20
Carbon tetrachloride	50.0	48.2		ug/L		96	75 - 130	1	20
Chlorobenzene	50.0	48.7		ug/L		97	80 - 120	0	20
Chlorobromomethane	50.0	50.2		ug/L		100	77 - 122	2	20
Chlorodibromomethane	50.0	51.5		ug/L		103	71 - 136	4	20
Chloroethane	50.0	45.2		ug/L		90	50 - 151	11	30
Chloroform	50.0	48.5		ug/L		97	79 - 122	2	20
Chloromethane	50.0	55.9		ug/L		112	63 - 126	2	30
cis-1,2-Dichloroethene	50.0	48.1		ug/L		96	80 - 122	4	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 133	3	20
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	59 - 141	1	30
Dibromomethane	50.0	48.3		ug/L		97	80 - 122	0	20
1,2-Dichlorobenzene	50.0	47.0		ug/L		94	80 - 120	0	20
1,4-Dichlorobenzene	50.0	45.7		ug/L		91	80 - 120	0	20
Dichlorobromomethane	50.0	48.6		ug/L		97	77 - 129	1	20
1,1-Dichloroethane	50.0	48.2		ug/L		96	80 - 120	0	20
1,2-Dichloroethane	50.0	48.9		ug/L		98	75 - 130	2	20
1,1-Dichloroethene	50.0	50.0		ug/L		100	74 - 125	0	20
1,2-Dichloropropane	50.0	46.8		ug/L		94	80 - 123	0	20
Ethylbenzene	50.0	47.7		ug/L		95	80 - 120	0	20
Ethylene Dibromide	50.0	51.2		ug/L		102	77 - 131	6	30
2-Hexanone	250	270		ug/L		108	70 - 141	5	40
Iodomethane	50.0	72.3	J	ug/L		145	15 - 162	39	30
Methylene Chloride	50.0	50.3		ug/L		101	76 - 129	3	20
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	75 - 135	5	30
Styrene	50.0	51.0		ug/L		102	80 - 122	1	20
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	80 - 120	1	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	72 - 128	3	20
Tetrachloroethene	50.0	55.6		ug/L		111	77 - 123	1	20
Toluene	50.0	48.2		ug/L		96	80 - 122	1	20
trans-1,4-Dichloro-2-butene	50.0	60.0		ug/L		120	55 - 147	3	40
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	74 - 140	4	20
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	74 - 128	2	20
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	79 - 125	3	20
Trichloroethene	50.0	50.5		ug/L		101	80 - 123	1	20
Trichlorofluoromethane	50.0	47.3		ug/L		95	58 - 145	6	30
1,2,3-Trichloropropane	50.0	48.8		ug/L		98	70 - 132	2	30
Vinyl acetate	100	110		ug/L		110	15 - 190	4	50
Vinyl chloride	50.0	55.8		ug/L		112	68 - 132	5	30
Xylenes, Total	100	95.7		ug/L		96	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-425168/5
Matrix: Water
Analysis Batch: 425168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 680-425265/9
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Method Blank
Prep Type: Total/NA

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Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/16/16 10:53	1
Acrylonitrile	10	U	20	10	ug/L			03/16/16 10:53	1
Benzene	0.43	U	1.0	0.43	ug/L			03/16/16 10:53	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/16/16 10:53	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/16/16 10:53	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/16/16 10:53	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/16/16 10:53	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/16/16 10:53	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/16/16 10:53	1
Chlorobromomethane	0.45	U	1.0	0.45	ug/L			03/16/16 10:53	1
Chlorodibromomethane	0.32	U	1.0	0.32	ug/L			03/16/16 10:53	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/16/16 10:53	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/16/16 10:53	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/16/16 10:53	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/16/16 10:53	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/16/16 10:53	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/16/16 10:53	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/16/16 10:53	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/16/16 10:53	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/16/16 10:53	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			03/16/16 10:53	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/16/16 10:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/16/16 10:53	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/16/16 10:53	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/16/16 10:53	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/16/16 10:53	1
Ethylene Dibromide	0.44	U	1.0	0.44	ug/L			03/16/16 10:53	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/16/16 10:53	1
Iodomethane	5.0	U	10	5.0	ug/L			03/16/16 10:53	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/16/16 10:53	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/16/16 10:53	1
Styrene	0.27	U	1.0	0.27	ug/L			03/16/16 10:53	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/16/16 10:53	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/16/16 10:53	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			03/16/16 10:53	1
Toluene	0.48	U	1.0	0.48	ug/L			03/16/16 10:53	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/16/16 10:53	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/16/16 10:53	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/16/16 10:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-425265/9
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/16/16 10:53	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/16/16 10:53	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/16/16 10:53	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/16/16 10:53	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/16/16 10:53	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/16/16 10:53	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/16/16 10:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/16/16 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/16/16 10:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*03/16/16 10:53*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/16/16 10:53*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*03/16/16 10:53*	*1*

Lab Sample ID: LCS 680-425265/5
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	252		ug/L		101	60 - 154
Acrylonitrile	500	529		ug/L		106	72 - 132
Benzene	50.0	48.4		ug/L		97	73 - 131
Bromoform	50.0	59.4		ug/L		119	69 - 135
Bromomethane	50.0	41.6		ug/L		83	20 - 180
2-Butanone (MEK)	250	258		ug/L		103	75 - 133
Carbon disulfide	50.0	47.7		ug/L		95	73 - 127
Carbon tetrachloride	50.0	47.1		ug/L		94	75 - 130
Chlorobenzene	50.0	48.3		ug/L		97	80 - 120
Chlorobromomethane	50.0	52.1		ug/L		104	77 - 122
Chlorodibromomethane	50.0	52.5		ug/L		105	71 - 136
Chloroethane	50.0	45.8		ug/L		92	50 - 151
Chloroform	50.0	48.1		ug/L		96	79 - 122
Chloromethane	50.0	57.1		ug/L		114	63 - 126
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	80 - 122
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	80 - 133
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/L		93	59 - 141
Dibromomethane	50.0	49.8		ug/L		100	80 - 122
1,2-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	80 - 120
Dichlorobromomethane	50.0	49.2		ug/L		98	77 - 129
1,1-Dichloroethane	50.0	49.0		ug/L		98	80 - 120
1,2-Dichloroethane	50.0	50.3		ug/L		101	75 - 130
1,1-Dichloroethene	50.0	47.9		ug/L		96	74 - 125
1,2-Dichloropropane	50.0	48.8		ug/L		98	80 - 123
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120
Ethylene Dibromide	50.0	51.5		ug/L		103	77 - 131
2-Hexanone	250	267		ug/L		107	70 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-425265/5
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodomethane	50.0	69.7		ug/L		139	15 - 162
Methylene Chloride	50.0	50.5		ug/L		101	76 - 129
4-Methyl-2-pentanone (MIBK)	250	254		ug/L		102	75 - 135
Styrene	50.0	51.4		ug/L		103	80 - 122
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	72 - 128
Tetrachloroethene	50.0	54.4		ug/L		109	77 - 123
Toluene	50.0	48.9		ug/L		98	80 - 122
trans-1,4-Dichloro-2-butene	50.0	57.5		ug/L		115	55 - 147
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	78 - 123
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	74 - 140
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	74 - 128
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	79 - 125
Trichloroethene	50.0	50.7		ug/L		101	80 - 123
Trichlorofluoromethane	50.0	44.5		ug/L		89	58 - 145
1,2,3-Trichloropropane	50.0	48.8		ug/L		98	70 - 132
Vinyl acetate	100	111		ug/L		111	15 - 190
Vinyl chloride	50.0	56.8		ug/L		114	68 - 132
Xylenes, Total	100	95.6		ug/L		96	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: LCSD 680-425265/30
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	248		ug/L		99	60 - 154	2	40
Acrylonitrile	500	501		ug/L		100	72 - 132	5	30
Benzene	50.0	47.7		ug/L		95	73 - 131	1	30
Bromoform	50.0	57.8		ug/L		116	69 - 135	3	20
Bromomethane	50.0	43.4		ug/L		87	20 - 180	4	40
2-Butanone (MEK)	250	255		ug/L		102	75 - 133	1	30
Carbon disulfide	50.0	46.8		ug/L		94	73 - 127	2	20
Carbon tetrachloride	50.0	48.5		ug/L		97	75 - 130	3	20
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120	1	20
Chlorobromomethane	50.0	49.9		ug/L		100	77 - 122	4	20
Chlorodibromomethane	50.0	50.1		ug/L		100	71 - 136	5	20
Chloroethane	50.0	44.6		ug/L		89	50 - 151	3	30
Chloroform	50.0	48.3		ug/L		97	79 - 122	1	20
Chloromethane	50.0	55.4		ug/L		111	63 - 126	3	30
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	80 - 133	6	20
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/L		92	59 - 141	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-425265/30
Matrix: Water
Analysis Batch: 425265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	48.0		ug/L		96	80 - 122	4	20
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 120	0	20
1,4-Dichlorobenzene	50.0	44.7		ug/L		89	80 - 120	3	20
Dichlorobromomethane	50.0	48.5		ug/L		97	77 - 129	1	20
1,1-Dichloroethane	50.0	48.4		ug/L		97	80 - 120	1	20
1,2-Dichloroethane	50.0	47.0		ug/L		94	75 - 130	7	20
1,1-Dichloroethene	50.0	50.2		ug/L		100	74 - 125	5	20
1,2-Dichloropropane	50.0	46.8		ug/L		94	80 - 123	4	20
Ethylbenzene	50.0	47.9		ug/L		96	80 - 120	1	20
Ethylene Dibromide	50.0	49.4		ug/L		99	77 - 131	4	30
2-Hexanone	250	261		ug/L		104	70 - 141	2	40
Iodomethane	50.0	51.0	J	ug/L		102	15 - 162	31	30
Methylene Chloride	50.0	48.2		ug/L		96	76 - 129	5	20
4-Methyl-2-pentanone (MIBK)	250	254		ug/L		102	75 - 135	0	30
Styrene	50.0	50.8		ug/L		102	80 - 122	1	20
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/L		103	80 - 120	2	20
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	72 - 128	4	20
Tetrachloroethene	50.0	54.9		ug/L		110	77 - 123	1	20
Toluene	50.0	48.7		ug/L		97	80 - 122	0	20
trans-1,4-Dichloro-2-butene	50.0	54.4		ug/L		109	55 - 147	5	40
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 123	2	20
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	74 - 140	7	20
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	74 - 128	1	20
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	79 - 125	6	20
Trichloroethene	50.0	51.1		ug/L		102	80 - 123	1	20
Trichlorofluoromethane	50.0	46.4		ug/L		93	58 - 145	4	30
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	70 - 132	3	30
Vinyl acetate	100	98.9		ug/L		99	15 - 190	11	50
Vinyl chloride	50.0	56.3		ug/L		113	68 - 132	1	30
Xylenes, Total	100	95.4		ug/L		95	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-423754/3-A
Matrix: Water
Analysis Batch: 423786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423754

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/03/16 12:16	03/03/16 15:30	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/03/16 12:16	03/03/16 15:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 680-423754/3-A
Matrix: Water
Analysis Batch: 423786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423754

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	109		60 - 144	03/03/16 12:16	03/03/16 15:30	1

Lab Sample ID: LCS 680-423754/4-A
Matrix: Water
Analysis Batch: 423786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.0959		ug/L		96	70 - 148
EDB	0.100	0.0922		ug/L		92	66 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Pentachloroethane	102		60 - 144

Lab Sample ID: MB 680-423756/3-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423756

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/03/16 12:16	03/03/16 19:55	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/03/16 12:16	03/03/16 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	106		60 - 144	03/03/16 12:16	03/03/16 19:55	1

Lab Sample ID: LCS 680-423756/4-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.106		ug/L		106	70 - 148
EDB	0.100	0.0991		ug/L		99	66 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Pentachloroethane	101		60 - 144

Lab Sample ID: 680-122444-6 MS
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Field Blank 01 122444
Prep Type: Total/NA
Prep Batch: 423756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0049	U	0.0956	0.106		ug/L		110	70 - 148
EDB	0.0022	U	0.0956	0.0972		ug/L		102	66 - 126

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	111		60 - 144

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-122444-6 MSD — **Client Sample ID: Field Blank 01 122444**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 423788 — **Prep Batch: 423756**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0049	U	0.0949	0.102		ug/L		107	70 - 148	4	30
EDB	0.0022	U	0.0949	0.0960		ug/L		101	66 - 126	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*105*		*60 - 144*

Lab Sample ID: MB 680-424121/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424141 — **Prep Batch: 424121**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/07/16 11:46	03/07/16 15:11	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*133*		*60 - 144*	*03/07/16 11:46*	*03/07/16 15:11*	*1*

Lab Sample ID: LCS 680-424121/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424141 — **Prep Batch: 424121**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.118		ug/L		118	70 - 148
EDB	0.100	0.110		ug/L		110	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*130*		*60 - 144*

Lab Sample ID: 680-122511-3 MS — **Client Sample ID: MWB-11(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424141 — **Prep Batch: 424121**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0049	U	0.0994	0.103		ug/L		103	70 - 148
EDB	0.0022	U	0.0994	0.0970		ug/L		98	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*103*		*60 - 144*

Lab Sample ID: 680-122511-3 MSD — **Client Sample ID: MWB-11(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424141 — **Prep Batch: 424121**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0049	U	0.0983	0.106		ug/L		108	70 - 148	3	30
EDB	0.0022	U	0.0983	0.101		ug/L		103	66 - 126	4	30

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-122511-3 MSD
Matrix: Water
Analysis Batch: 424141

Client Sample ID: MWB-11(S)c
Prep Type: Total/NA
Prep Batch: 424121

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*108*		*60 - 144*

Lab Sample ID: 680-122511-4 MS
Matrix: Water
Analysis Batch: 424141

Client Sample ID: MWB-34(S)d
Prep Type: Total/NA
Prep Batch: 424121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0049	U	0.0983	0.0969		ug/L		99	70 - 148
EDB	0.0022	U	0.0983	0.0940		ug/L		96	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*100*		*60 - 144*

Lab Sample ID: MB 680-424129/3-A
Matrix: Water
Analysis Batch: 424143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424129

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/07/16 11:46	03/07/16 19:47	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/07/16 11:46	03/07/16 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*113*		*60 - 144*	*03/07/16 11:46*	*03/07/16 19:47*	*1*

Lab Sample ID: LCS 680-424129/4-A
Matrix: Water
Analysis Batch: 424143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.109		ug/L		109	70 - 148
EDB	0.100	0.102		ug/L		102	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*104*		*60 - 144*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-425179/4
Matrix: Water
Analysis Batch: 425179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/15/16 12:03	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-425179/5
Matrix: Water
Analysis Batch: 425179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.97		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-425179/6
Matrix: Water
Analysis Batch: 425179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.97		mg/L		100	90 - 110	0	30

Lab Sample ID: 680-122444-6 DU
Matrix: Water
Analysis Batch: 425179

Client Sample ID: Field Blank 01 122444
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	0.20	U	0.20	U	mg/L		NC	30

Lab Sample ID: MB 680-425394/2
Matrix: Water
Analysis Batch: 425394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/16/16 11:02	1

Lab Sample ID: LCS 680-425394/3
Matrix: Water
Analysis Batch: 425394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.96		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-425394/4
Matrix: Water
Analysis Batch: 425394

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.98		mg/L		100	90 - 110	0	30

Lab Sample ID: 680-122444-13 MS
Matrix: Water
Analysis Batch: 425394

Client Sample ID: MWB-22(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		10.0	23.8		mg/L		98	80 - 120

Lab Sample ID: 680-122444-13 MSD
Matrix: Water
Analysis Batch: 425394

Client Sample ID: MWB-22(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14		10.0	23.9		mg/L		99	80 - 120	0	30

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Lab Sample ID: 680-122511-12 DU — **Client Sample ID: Field Blank 02 122511**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425394

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	0.20	U	0.20	U	mg/L		NC	30

Lab Sample ID: MB 680-425400/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425400

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/16/16 20:54	1

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Lab Sample ID: LCS 680-425400/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-425400/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425400

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.98		mg/L		100	90 - 110	0	30

Lab Sample ID: 680-122511-10 MS — **Client Sample ID: MWB-34(l)d**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		10.0	5.96	J	mg/L		6	80 - 120

Lab Sample ID: 680-122511-10 MSD — **Client Sample ID: MWB-34(l)d**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.4		10.0	6.00	J	mg/L		6	80 - 120	1	30

Lab Sample ID: MB 680-425674/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425674

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			03/17/16 12:27	1

Lab Sample ID: LCS 680-425674/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-425674/4
Matrix: Water
Analysis Batch: 425674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.0		mg/L		100	90 - 110	0	30

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-297261/1-A
Matrix: Water
Analysis Batch: 297310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 297261

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		03/14/16 09:11	03/14/16 09:36	1

Lab Sample ID: LCS 400-297261/2-A
Matrix: Water
Analysis Batch: 297310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 297261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00483		ug/L		97	79 - 121

Lab Sample ID: LCSD 400-297261/3-A
Matrix: Water
Analysis Batch: 297310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 297261

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.00490		ug/L		98	79 - 121	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-423879/1-A
Matrix: Water
Analysis Batch: 424235

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 423879

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25	U	100	25	ug/L		03/04/16 09:25	03/07/16 19:23	1
Sodium	0.17	U	0.50	0.17	mg/L		03/04/16 09:25	03/07/16 19:23	1

Lab Sample ID: LCS 680-423879/2-A
Matrix: Water
Analysis Batch: 424235

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 423879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	5640		ug/L		113	75 - 125
Sodium	5.00	5.47		mg/L		109	75 - 125

Lab Sample ID: MB 680-424275/1-A
Matrix: Water
Analysis Batch: 424450

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 424275

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/08/16 10:41	03/08/16 16:51	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-424275/1-A
Matrix: Water
Analysis Batch: 424450

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 424275

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5	U	3.0	1.5	ug/L		03/08/16 10:41	03/08/16 16:51	1
Barium	0.61	U	5.0	0.61	ug/L		03/08/16 10:41	03/08/16 16:51	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/08/16 10:41	03/08/16 16:51	1
Cadmium	0.15	U	0.50	0.15	ug/L		03/08/16 10:41	03/08/16 16:51	1
Chromium	1.6	U	5.0	1.6	ug/L		03/08/16 10:41	03/08/16 16:51	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/08/16 10:41	03/08/16 16:51	1
Copper	1.7	U	5.0	1.7	ug/L		03/08/16 10:41	03/08/16 16:51	1
Iron	25	U	100	25	ug/L		03/08/16 10:41	03/08/16 16:51	1
Lead	0.98	U	2.5	0.98	ug/L		03/08/16 10:41	03/08/16 16:51	1
Nickel	1.9	U	5.0	1.9	ug/L		03/08/16 10:41	03/08/16 16:51	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/16 10:41	03/08/16 16:51	1
Sodium	0.17	U	0.50	0.17	mg/L		03/08/16 10:41	03/08/16 16:51	1
Silver	0.10	U	1.0	0.10	ug/L		03/08/16 10:41	03/08/16 16:51	1
Thallium	0.49	U	1.0	0.49	ug/L		03/08/16 10:41	03/08/16 16:51	1
Vanadium	5.3	U	10	5.3	ug/L		03/08/16 10:41	03/08/16 16:51	1
Zinc	9.6	U	20	9.6	ug/L		03/08/16 10:41	03/08/16 16:51	1

Lab Sample ID: LCS 680-424275/2-A
Matrix: Water
Analysis Batch: 424450

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 424275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.9		ug/L		108	75 - 125
Arsenic	100	105		ug/L		105	75 - 125
Barium	100	103		ug/L		103	75 - 125
Beryllium	50.0	54.7		ug/L		109	75 - 125
Cadmium	50.0	54.3		ug/L		109	75 - 125
Chromium	100	110		ug/L		110	75 - 125
Cobalt	50.0	58.3		ug/L		117	75 - 125
Copper	100	115		ug/L		115	75 - 125
Iron	5000	5550		ug/L		111	75 - 125
Lead	500	530		ug/L		106	75 - 125
Nickel	100	107		ug/L		107	75 - 125
Selenium	100	97.0		ug/L		97	75 - 125
Sodium	5.00	5.41		mg/L		108	75 - 125
Silver	50.0	57.2		ug/L		114	75 - 125
Thallium	40.0	41.3		ug/L		103	75 - 125
Vanadium	100	107		ug/L		107	75 - 125
Zinc	100	107		ug/L		107	75 - 125

Lab Sample ID: MB 680-424410/1-A
Matrix: Water
Analysis Batch: 424555

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 424410

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	5.0	0.50	ug/L		03/09/16 10:13	03/09/16 20:00	1
Arsenic	1.5	U	3.0	1.5	ug/L		03/09/16 10:13	03/09/16 20:00	1
Barium	0.61	U	5.0	0.61	ug/L		03/09/16 10:13	03/09/16 20:00	1
Beryllium	0.17	U	0.50	0.17	ug/L		03/09/16 10:13	03/09/16 20:00	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-424410/1-A
Matrix: Water
Analysis Batch: 424555

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 424410

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.15	U	0.50	0.15	ug/L		03/09/16 10:13	03/09/16 20:00	1
Chromium	1.6	U	5.0	1.6	ug/L		03/09/16 10:13	03/09/16 20:00	1
Cobalt	0.12	U	0.50	0.12	ug/L		03/09/16 10:13	03/09/16 20:00	1
Copper	1.7	U	5.0	1.7	ug/L		03/09/16 10:13	03/09/16 20:00	1
Iron	25	U	100	25	ug/L		03/09/16 10:13	03/09/16 20:00	1
Lead	0.98	U	2.5	0.98	ug/L		03/09/16 10:13	03/09/16 20:00	1
Nickel	1.9	U	5.0	1.9	ug/L		03/09/16 10:13	03/09/16 20:00	1
Selenium	1.0	U	2.5	1.0	ug/L		03/09/16 10:13	03/09/16 20:00	1
Sodium	0.17	U	0.50	0.17	mg/L		03/09/16 10:13	03/09/16 20:00	1
Silver	0.10	U	1.0	0.10	ug/L		03/09/16 10:13	03/09/16 20:00	1
Thallium	0.49	U	1.0	0.49	ug/L		03/09/16 10:13	03/09/16 20:00	1
Vanadium	5.3	U	10	5.3	ug/L		03/09/16 10:13	03/09/16 20:00	1
Zinc	9.6	U	20	9.6	ug/L		03/09/16 10:13	03/09/16 20:00	1

Lab Sample ID: LCS 680-424410/2-A
Matrix: Water
Analysis Batch: 424555

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 424410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	57.3		ug/L		115	75 - 125
Arsenic	100	110		ug/L		110	75 - 125
Barium	100	109		ug/L		109	75 - 125
Beryllium	50.0	53.4		ug/L		107	75 - 125
Cadmium	50.0	57.4		ug/L		115	75 - 125
Calcium	5.00	6.12		mg/L		122	75 - 125
Chromium	100	109		ug/L		109	75 - 125
Cobalt	50.0	57.1		ug/L		114	75 - 125
Copper	100	113		ug/L		113	75 - 125
Iron	5000	5510		ug/L		110	75 - 125
Lead	500	550		ug/L		110	75 - 125
Magnesium	5.00	5.62		mg/L		112	75 - 125
Nickel	100	112		ug/L		112	75 - 125
Selenium	100	111		ug/L		111	75 - 125
Sodium	5.00	5.52		mg/L		110	75 - 125
Silver	50.0	56.6		ug/L		113	75 - 125
Thallium	40.0	43.2		ug/L		108	75 - 125
Vanadium	100	107		ug/L		107	75 - 125
Zinc	100	113		ug/L		113	75 - 125

Lab Sample ID: MB 680-426225/1-A
Matrix: Water
Analysis Batch: 426470

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 426225

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Antimony	0.50	U	5.0	0.50	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Arsenic	1.5	U	3.0	1.5	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Barium	0.61	U	5.0	0.61	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Beryllium	0.17	U	0.50	0.17	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Cadmium	0.15	U	0.50	0.15	ug/L		03/23/16 08:41	03/23/16 23:42	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-426225/1-A
Matrix: Water
Analysis Batch: 426470

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 426225

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.6	U	5.0	1.6	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Cobalt	0.12	U	0.50	0.12	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Copper	1.7	U	5.0	1.7	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Iron	25	U	100	25	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Lead	0.98	U	2.5	0.98	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Nickel	1.9	U	5.0	1.9	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Sodium	0.17	U	0.50	0.17	mg/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Silver	0.10	U	1.0	0.10	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Thallium	0.49	U	1.0	0.49	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Vanadium	5.3	U	10	5.3	ug/L		03/23/16 08:41	03/23/16 23:42	1
Dissolved Zinc	9.6	U	20	9.6	ug/L		03/23/16 08:41	03/23/16 23:42	1

Lab Sample ID: LCS 680-426225/2-A
Matrix: Water
Analysis Batch: 426470

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 426225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Antimony	50.0	57.6		ug/L		115	75 - 125
Dissolved Arsenic	100	113		ug/L		113	75 - 125
Dissolved Barium	100	117		ug/L		117	75 - 125
Dissolved Beryllium	50.0	57.3		ug/L		115	75 - 125
Dissolved Cadmium	50.0	60.1		ug/L		120	75 - 125
Dissolved Chromium	100	110		ug/L		110	75 - 125
Dissolved Cobalt	50.0	56.6		ug/L		113	75 - 125
Dissolved Copper	100	111		ug/L		111	75 - 125
Dissolved Iron	5000	5510		ug/L		110	75 - 125
Dissolved Lead	500	557		ug/L		111	75 - 125
Dissolved Nickel	100	112		ug/L		112	75 - 125
Dissolved Selenium	100	106		ug/L		106	75 - 125
Dissolved Sodium	5.00	5.51		mg/L		110	75 - 125
Dissolved Silver	50.0	56.1		ug/L		112	75 - 125
Dissolved Thallium	40.0	44.5		ug/L		111	75 - 125
Dissolved Vanadium	100	109		ug/L		109	75 - 125
Dissolved Zinc	100	114		ug/L		114	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-423886/1-A
Matrix: Water
Analysis Batch: 424113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423886

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		03/04/16 09:40	03/04/16 18:12	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-423886/2-A
Matrix: Water
Analysis Batch: 424113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Lab Sample ID: MB 680-425215/1
Matrix: Water
Analysis Batch: 425215

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3.3	U	3.3	3.3	mg/L			03/15/16 14:22	1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-424267/1
Matrix: Water
Analysis Batch: 424267

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			03/08/16 10:28	1

Lab Sample ID: LCS 680-424267/2
Matrix: Water
Analysis Batch: 424267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	20.0	21.5		mg/L		108	80 - 120

Lab Sample ID: LCSD 680-424267/3
Matrix: Water
Analysis Batch: 424267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	20.0	22.5		mg/L		113	80 - 120	5	25

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-423724/1
Matrix: Water
Analysis Batch: 423724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/03/16 10:21	1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-423724/2
Matrix: Water
Analysis Batch: 423724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	56.0		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-423724/3
Matrix: Water
Analysis Batch: 423724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	50.0		mg/L		85	80 - 120	11	25

Lab Sample ID: MB 680-423949/1
Matrix: Water
Analysis Batch: 423949

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/04/16 12:53	1

Lab Sample ID: LCS 680-423949/2
Matrix: Water
Analysis Batch: 423949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	53.0		mg/L		90	80 - 120

Lab Sample ID: LCSD 680-423949/3
Matrix: Water
Analysis Batch: 423949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	49.0		mg/L		83	80 - 120	8	25

Lab Sample ID: 680-122444-10 DU
Matrix: Water
Analysis Batch: 423949

Client Sample ID: MWB-27(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	180		186		mg/L		3	5

Lab Sample ID: MB 680-424068/1
Matrix: Water
Analysis Batch: 424068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/06/16 11:02	1

Lab Sample ID: LCS 680-424068/2
Matrix: Water
Analysis Batch: 424068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	51.0		mg/L		86	80 - 120

Lab Sample ID: LCSD 680-424068/3
Matrix: Water
Analysis Batch: 424068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	61.0		mg/L		103	80 - 120	18	25

Lab Sample ID: 680-122511-3 DU
Matrix: Water
Analysis Batch: 424068

Client Sample ID: MWB-11(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		109		mg/L		0.9	5

Lab Sample ID: MB 680-424116/1
Matrix: Water
Analysis Batch: 424116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/07/16 10:58	1

Lab Sample ID: LCS 680-424116/2
Matrix: Water
Analysis Batch: 424116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	52.0		mg/L		88	80 - 120

Lab Sample ID: LCSD 680-424116/3
Matrix: Water
Analysis Batch: 424116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	54.0		mg/L		92	80 - 120	4	25

Lab Sample ID: 680-122511-6 DU
Matrix: Water
Analysis Batch: 424116

Client Sample ID: MWB-32(S)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		114		mg/L		3	5

Lab Sample ID: 680-122594-1 DU
Matrix: Water
Analysis Batch: 424116

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	330		327		mg/L		0.6	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-424148/2
Matrix: Water
Analysis Batch: 424148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 11:44	1

Lab Sample ID: LCS 680-424148/1
Matrix: Water
Analysis Batch: 424148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-424148/4
Matrix: Water
Analysis Batch: 424148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.00	1.01		mg/L		101	90 - 110	1	30

Lab Sample ID: 680-122444-2 MS
Matrix: Water
Analysis Batch: 424148

Client Sample ID: MWB-29(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.10	U	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: 680-122444-2 MSD
Matrix: Water
Analysis Batch: 424148

Client Sample ID: MWB-29(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.10	U	1.00	1.01		mg/L		101	90 - 110	1	30

Lab Sample ID: 680-122444-9 DU
Matrix: Water
Analysis Batch: 424148

Client Sample ID: MWB-29(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.16	I	0.166	I	mg/L		6	30

Lab Sample ID: MB 680-424149/2
Matrix: Water
Analysis Batch: 424149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 11:44	1

Lab Sample ID: LCS 680-424149/1
Matrix: Water
Analysis Batch: 424149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-424149/4
Matrix: Water
Analysis Batch: 424149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)			1.00	1.01		mg/L		101	90 - 110	1	30

Lab Sample ID: 680-122511-1 DU
Matrix: Water
Analysis Batch: 424149

Client Sample ID: MWB-3(S)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia (as N)	0.10	U		0.10	U	mg/L				NC	30

Lab Sample ID: MB 680-424150/2
Matrix: Water
Analysis Batch: 424150

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.10	U	0.25	0.10	mg/L			03/04/16 11:44	1

Lab Sample ID: LCS 680-424150/1
Matrix: Water
Analysis Batch: 424150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia (as N)			1.00	1.01		mg/L		101	90 - 110		

Lab Sample ID: LCSD 680-424150/4
Matrix: Water
Analysis Batch: 424150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)			1.00	1.01		mg/L		101	90 - 110	1	30

Lab Sample ID: 680-122511-2 MS
Matrix: Water
Analysis Batch: 424150

Client Sample ID: MWB-20(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia (as N)	2.3		1.00	3.14	J	mg/L		87	90 - 110		

Lab Sample ID: 680-122511-2 MSD
Matrix: Water
Analysis Batch: 424150

Client Sample ID: MWB-20(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	2.3		1.00	3.10	J	mg/L		82	90 - 110	1	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-423671/13
Matrix: Water
Analysis Batch: 423671

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/02/16 16:00	1

Lab Sample ID: LCS 680-423671/16
Matrix: Water
Analysis Batch: 423671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.04		mg/L		104	90 - 110
Nitrite as N	0.500	0.512		mg/L		102	90 - 110

Lab Sample ID: MB 680-423835/13
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 14:45	1

Lab Sample ID: MB 680-423835/44
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/03/16 15:23	1

Lab Sample ID: LCS 680-423835/15
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110
Nitrite as N	0.500	0.519		mg/L		104	90 - 110

Lab Sample ID: LCS 680-423835/45
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.995		mg/L		100	90 - 110
Nitrite as N	0.500	0.522		mg/L		104	90 - 110

Lab Sample ID: 680-122511-8 MS
Matrix: Water
Analysis Batch: 423835

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.010	U	1.00	1.00		mg/L		100	90 - 110
Nitrite as N	0.010	U	0.500	0.527		mg/L		105	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-122511-8 MSD — **Client Sample ID: MWB-3(I)b**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 423835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.010	U	1.00	1.00		mg/L		100	90 - 110	0	10
Nitrite as N	0.010	U	0.500	0.529		mg/L		106	90 - 110	0	10

Lab Sample ID: 680-122511-9 DU — **Client Sample ID: MWB-11(1)(R)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 423835

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.010	U	0.010	U	mg/L		NC	30

Lab Sample ID: MB 680-424000/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424000

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/04/16 14:59	1

Lab Sample ID: LCS 680-424000/16 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 424000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.04		mg/L		104	90 - 110
Nitrite as N	0.500	0.526		mg/L		105	90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-425132/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425369 — **Prep Batch: 425132**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/15/16 10:25	03/16/16 11:09	1

Lab Sample ID: LCS 680-425132/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425369 — **Prep Batch: 425132**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.19		mg/L		109	60 - 140

Method: 4500 P F-2011 - Orthophosphate, Automated Ascorbic Acid Method

Lab Sample ID: MB 680-423986/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 423986

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/04/16 11:30	1

Lab Sample ID: LCS 680-423986/1
Matrix: Water
Analysis Batch: 423986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	1.20	1.19		mg/L		99	90 - 110

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-424023/1
Matrix: Water
Analysis Batch: 424023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/04/16 12:00	1

Lab Sample ID: LCS 680-424023/2
Matrix: Water
Analysis Batch: 424023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	189		mg/L		96	85 - 115

Lab Sample ID: LCSD 680-424023/3
Matrix: Water
Analysis Batch: 424023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	189		mg/L		95	85 - 115	0	30

Method: SM 5220D - COD

Lab Sample ID: MB 680-425149/3
Matrix: Water
Analysis Batch: 425149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	5.0	U	10	5.0	mg/L			03/15/16 11:44	1

Lab Sample ID: LCS 680-425149/4
Matrix: Water
Analysis Batch: 425149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	50.0		mg/L		100	90 - 110

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 400-297187/4
Matrix: Water
Analysis Batch: 297187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			03/09/16 14:11	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 400-297187/5
Matrix: Water
Analysis Batch: 297187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.77		mg/L		98	80 - 120

Lab Sample ID: MRL 400-297187/2
Matrix: Water
Analysis Batch: 297187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.00	1.19		mg/L		119	50 - 150

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GC/MS VOA

Analysis Batch: 424907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	8260B	
680-122444-7	MWB-2(S)b	Total/NA	Water	8260B	
680-122444-8	MWB-21(S)c	Total/NA	Water	8260B	
680-122444-9	MWB-29(S)c	Total/NA	Water	8260B	
680-122444-10	MWB-27(S)c	Total/NA	Water	8260B	
680-122444-11	MWB-13(S)c	Total/NA	Water	8260B	
680-122444-12	MWB-12(S)c	Total/NA	Water	8260B	
680-122444-13	MWB-22(S)c	Total/NA	Water	8260B	
680-122444-14	Trip Blank 01 122444	Total/NA	Water	8260B	
LCS 680-424907/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-424907/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-424907/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 425168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total/NA	Water	8260B	
680-122511-2	MWB-20(S)c	Total/NA	Water	8260B	
680-122511-3	MWB-11(S)c	Total/NA	Water	8260B	
680-122511-4	MWB-34(S)d	Total/NA	Water	8260B	
680-122511-5	MWB-33(S)d	Total/NA	Water	8260B	
680-122511-6	MWB-32(S)d	Total/NA	Water	8260B	
680-122511-7	Trip Blank 122511	Total/NA	Water	8260B	
680-122511-12	Field Blank 02 122511	Total/NA	Water	8260B	
680-122511-13	Trip Blank 2 122511	Total/NA	Water	8260B	
LCS 680-425168/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-425168/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-425168/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 425265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	8260B	
680-122594-2	SW-3	Total/NA	Water	8260B	
680-122594-3	Trip Blank 122594	Total/NA	Water	8260B	
LCS 680-425265/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-425265/30	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-425265/9	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 423754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Total/NA	Water	8011	
680-122444-12	MWB-12(S)c	Total/NA	Water	8011	
LCS 680-423754/4-A	Lab Control Sample	Total/NA	Water	8011	
MB 680-423754/3-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 423756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	8011	
680-122444-6 MS	Field Blank 01 122444	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 423756 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6 MSD	Field Blank 01 122444	Total/NA	Water	8011	
680-122444-8	MWB-21(S)c	Total/NA	Water	8011	
680-122444-9	MWB-29(S)c	Total/NA	Water	8011	
680-122444-10	MWB-27(S)c	Total/NA	Water	8011	
680-122444-11	MWB-13(S)c	Total/NA	Water	8011	
680-122444-13	MWB-22(S)c	Total/NA	Water	8011	
LCS 680-423756/4-A	Lab Control Sample	Total/NA	Water	8011	
MB 680-423756/3-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 423786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Total/NA	Water	8011	423754
680-122444-12	MWB-12(S)c	Total/NA	Water	8011	423754
LCS 680-423754/4-A	Lab Control Sample	Total/NA	Water	8011	423754
MB 680-423754/3-A	Method Blank	Total/NA	Water	8011	423754

Analysis Batch: 423788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	8011	423756
680-122444-6 MS	Field Blank 01 122444	Total/NA	Water	8011	423756
680-122444-6 MSD	Field Blank 01 122444	Total/NA	Water	8011	423756
680-122444-8	MWB-21(S)c	Total/NA	Water	8011	423756
680-122444-9	MWB-29(S)c	Total/NA	Water	8011	423756
680-122444-10	MWB-27(S)c	Total/NA	Water	8011	423756
680-122444-11	MWB-13(S)c	Total/NA	Water	8011	423756
680-122444-13	MWB-22(S)c	Total/NA	Water	8011	423756
LCS 680-423756/4-A	Lab Control Sample	Total/NA	Water	8011	423756
MB 680-423756/3-A	Method Blank	Total/NA	Water	8011	423756

Prep Batch: 424121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total/NA	Water	8011	
680-122511-2	MWB-20(S)c	Total/NA	Water	8011	
680-122511-3	MWB-11(S)c	Total/NA	Water	8011	
680-122511-3 MS	MWB-11(S)c	Total/NA	Water	8011	
680-122511-3 MSD	MWB-11(S)c	Total/NA	Water	8011	
680-122511-4	MWB-34(S)d	Total/NA	Water	8011	
680-122511-4 MS	MWB-34(S)d	Total/NA	Water	8011	
680-122511-5	MWB-33(S)d	Total/NA	Water	8011	
680-122511-6	MWB-32(S)d	Total/NA	Water	8011	
680-122511-12	Field Blank 02 122511	Total/NA	Water	8011	
LCS 680-424121/4-A	Lab Control Sample	Total/NA	Water	8011	
MB 680-424121/3-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 424129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	8011	
680-122594-2	SW-3	Total/NA	Water	8011	
LCS 680-424129/4-A	Lab Control Sample	Total/NA	Water	8011	
MB 680-424129/3-A	Method Blank	Total/NA	Water	8011	

GC Semi VOA (Continued)

Analysis Batch: 424141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total/NA	Water	8011	424121
680-122511-2	MWB-20(S)c	Total/NA	Water	8011	424121
680-122511-3	MWB-11(S)c	Total/NA	Water	8011	424121
680-122511-3 MS	MWB-11(S)c	Total/NA	Water	8011	424121
680-122511-3 MSD	MWB-11(S)c	Total/NA	Water	8011	424121
680-122511-4	MWB-34(S)d	Total/NA	Water	8011	424121
680-122511-4 MS	MWB-34(S)d	Total/NA	Water	8011	424121
680-122511-5	MWB-33(S)d	Total/NA	Water	8011	424121
680-122511-6	MWB-32(S)d	Total/NA	Water	8011	424121
680-122511-12	Field Blank 02 122511	Total/NA	Water	8011	424121
LCS 680-424121/4-A	Lab Control Sample	Total/NA	Water	8011	424121
MB 680-424121/3-A	Method Blank	Total/NA	Water	8011	424121

Analysis Batch: 424143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	8011	424129
680-122594-2	SW-3	Total/NA	Water	8011	424129
LCS 680-424129/4-A	Lab Control Sample	Total/NA	Water	8011	424129
MB 680-424129/3-A	Method Blank	Total/NA	Water	8011	424129

HPLC/IC

Analysis Batch: 425179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total/NA	Water	300.0	
680-122444-2	MWB-29(I)c	Total/NA	Water	300.0	
680-122444-3	MWB-27(I)c	Total/NA	Water	300.0	
680-122444-4	MWB-13(I)c	Total/NA	Water	300.0	
680-122444-5	MWB-12(1)c	Total/NA	Water	300.0	
680-122444-6	Field Blank 01 122444	Total/NA	Water	300.0	
680-122444-6 DU	Field Blank 01 122444	Total/NA	Water	300.0	
680-122444-7	MWB-2(S)b	Total/NA	Water	300.0	
LCS 680-425179/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-425179/6	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-425179/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 425394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-8	MWB-21(S)c	Total/NA	Water	300.0	
680-122444-9	MWB-29(S)c	Total/NA	Water	300.0	
680-122444-10	MWB-27(S)c	Total/NA	Water	300.0	
680-122444-11	MWB-13(S)c	Total/NA	Water	300.0	
680-122444-13	MWB-22(S)c	Total/NA	Water	300.0	
680-122444-13 MS	MWB-22(S)c	Total/NA	Water	300.0	
680-122444-13 MSD	MWB-22(S)c	Total/NA	Water	300.0	
680-122511-1	MWB-3(S)b	Total/NA	Water	300.0	
680-122511-3	MWB-11(S)c	Total/NA	Water	300.0	
680-122511-4	MWB-34(S)d	Total/NA	Water	300.0	
680-122511-5	MWB-33(S)d	Total/NA	Water	300.0	
680-122511-6	MWB-32(S)d	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 425394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-8	MWB-3(I)b	Total/NA	Water	300.0	
680-122511-9	MWB-11(1)(R)c	Total/NA	Water	300.0	
680-122511-12	Field Blank 02 122511	Total/NA	Water	300.0	
680-122511-12 DU	Field Blank 02 122511	Total/NA	Water	300.0	
LCS 680-425394/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-425394/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-425394/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 425400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-12	MWB-12(S)c	Total/NA	Water	300.0	
680-122511-10	MWB-34(I)d	Total/NA	Water	300.0	
680-122511-10 MS	MWB-34(I)d	Total/NA	Water	300.0	
680-122511-10 MSD	MWB-34(I)d	Total/NA	Water	300.0	
680-122511-11	MWB-32(I)d	Total/NA	Water	300.0	
LCS 680-425400/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-425400/38	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-425400/36	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 425674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-2	MWB-20(S)c	Total/NA	Water	300.0	
LCS 680-425674/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-425674/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-425674/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 297261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	1631E	
680-122594-2	SW-3	Total/NA	Water	1631E	
LCS 400-297261/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-297261/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-297261/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 297310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	1631E	297261
680-122594-2	SW-3	Total/NA	Water	1631E	297261
LCS 400-297261/2-A	Lab Control Sample	Total/NA	Water	1631E	297261
LCSD 400-297261/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	297261
MB 400-297261/1-A	Method Blank	Total/NA	Water	1631E	297261

Prep Batch: 423879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total Recoverable	Water	3005A	
680-122444-2	MWB-29(I)c	Total Recoverable	Water	3005A	
680-122444-3	MWB-27(I)c	Total Recoverable	Water	3005A	
680-122444-4	MWB-13(I)c	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 423879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-5	MWB-12(1)c	Total Recoverable	Water	3005A	
LCS 680-423879/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-423879/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 423886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	7470A	
680-122444-7	MWB-2(S)b	Total/NA	Water	7470A	
680-122444-8	MWB-21(S)c	Total/NA	Water	7470A	
680-122444-9	MWB-29(S)c	Total/NA	Water	7470A	
680-122444-10	MWB-27(S)c	Total/NA	Water	7470A	
680-122444-11	MWB-13(S)c	Total/NA	Water	7470A	
680-122444-12	MWB-12(S)c	Total/NA	Water	7470A	
680-122444-13	MWB-22(S)c	Total/NA	Water	7470A	
680-122511-1	MWB-3(S)b	Total/NA	Water	7470A	
680-122511-2	MWB-20(S)c	Total/NA	Water	7470A	
680-122511-3	MWB-11(S)c	Total/NA	Water	7470A	
680-122511-4	MWB-34(S)d	Total/NA	Water	7470A	
680-122511-5	MWB-33(S)d	Total/NA	Water	7470A	
680-122511-6	MWB-32(S)d	Total/NA	Water	7470A	
680-122511-12	Field Blank 02 122511	Total/NA	Water	7470A	
LCS 680-423886/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-423886/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 424113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	7470A	423886
680-122444-7	MWB-2(S)b	Total/NA	Water	7470A	423886
680-122444-8	MWB-21(S)c	Total/NA	Water	7470A	423886
680-122444-9	MWB-29(S)c	Total/NA	Water	7470A	423886
680-122444-10	MWB-27(S)c	Total/NA	Water	7470A	423886
680-122444-11	MWB-13(S)c	Total/NA	Water	7470A	423886
680-122444-12	MWB-12(S)c	Total/NA	Water	7470A	423886
680-122444-13	MWB-22(S)c	Total/NA	Water	7470A	423886
680-122511-1	MWB-3(S)b	Total/NA	Water	7470A	423886
680-122511-2	MWB-20(S)c	Total/NA	Water	7470A	423886
680-122511-3	MWB-11(S)c	Total/NA	Water	7470A	423886
680-122511-4	MWB-34(S)d	Total/NA	Water	7470A	423886
680-122511-5	MWB-33(S)d	Total/NA	Water	7470A	423886
680-122511-6	MWB-32(S)d	Total/NA	Water	7470A	423886
680-122511-12	Field Blank 02 122511	Total/NA	Water	7470A	423886
LCS 680-423886/2-A	Lab Control Sample	Total/NA	Water	7470A	423886
MB 680-423886/1-A	Method Blank	Total/NA	Water	7470A	423886

Analysis Batch: 424235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total Recoverable	Water	6020	423879
680-122444-2	MWB-29(I)c	Total Recoverable	Water	6020	423879
680-122444-3	MWB-27(I)c	Total Recoverable	Water	6020	423879
680-122444-4	MWB-13(I)c	Total Recoverable	Water	6020	423879
680-122444-5	MWB-12(1)c	Total Recoverable	Water	6020	423879

Metals (Continued)

Analysis Batch: 424235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-423879/2-A	Lab Control Sample	Total Recoverable	Water	6020	423879
MB 680-423879/1-A	Method Blank	Total Recoverable	Water	6020	423879

Prep Batch: 424275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total Recoverable	Water	3005A	
680-122444-7	MWB-2(S)b	Total Recoverable	Water	3005A	
680-122444-8	MWB-21(S)c	Total Recoverable	Water	3005A	
680-122444-9	MWB-29(S)c	Total Recoverable	Water	3005A	
680-122444-10	MWB-27(S)c	Total Recoverable	Water	3005A	
680-122444-11	MWB-13(S)c	Total Recoverable	Water	3005A	
680-122444-12	MWB-12(S)c	Total Recoverable	Water	3005A	
680-122444-13	MWB-22(S)c	Total Recoverable	Water	3005A	
LCS 680-424275/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-424275/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 424410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total Recoverable	Water	3005A	
680-122511-2	MWB-20(S)c	Total Recoverable	Water	3005A	
680-122511-3	MWB-11(S)c	Total Recoverable	Water	3005A	
680-122511-4	MWB-34(S)d	Total Recoverable	Water	3005A	
680-122511-5	MWB-33(S)d	Total Recoverable	Water	3005A	
680-122511-6	MWB-32(S)d	Total Recoverable	Water	3005A	
680-122511-8	MWB-3(I)b	Total Recoverable	Water	3005A	
680-122511-9	MWB-11(1)(R)c	Total Recoverable	Water	3005A	
680-122511-10	MWB-34(I)d	Total Recoverable	Water	3005A	
680-122511-11	MWB-32(I)d	Total Recoverable	Water	3005A	
680-122511-12	Field Blank 02 122511	Total Recoverable	Water	3005A	
680-122594-1	SW-1	Total Recoverable	Water	3005A	
680-122594-2	SW-3	Total Recoverable	Water	3005A	
LCS 680-424410/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-424410/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 424450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total Recoverable	Water	6020	424275
680-122444-7	MWB-2(S)b	Total Recoverable	Water	6020	424275
680-122444-8	MWB-21(S)c	Total Recoverable	Water	6020	424275
680-122444-9	MWB-29(S)c	Total Recoverable	Water	6020	424275
680-122444-10	MWB-27(S)c	Total Recoverable	Water	6020	424275
680-122444-11	MWB-13(S)c	Total Recoverable	Water	6020	424275
680-122444-12	MWB-12(S)c	Total Recoverable	Water	6020	424275
680-122444-13	MWB-22(S)c	Total Recoverable	Water	6020	424275
LCS 680-424275/2-A	Lab Control Sample	Total Recoverable	Water	6020	424275
MB 680-424275/1-A	Method Blank	Total Recoverable	Water	6020	424275

Analysis Batch: 424555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total Recoverable	Water	6020	424410
680-122511-2	MWB-20(S)c	Total Recoverable	Water	6020	424410

Metals (Continued)

Analysis Batch: 424555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-3	MWB-11(S)c	Total Recoverable	Water	6020	424410
680-122511-4	MWB-34(S)d	Total Recoverable	Water	6020	424410
680-122511-5	MWB-33(S)d	Total Recoverable	Water	6020	424410
680-122511-6	MWB-32(S)d	Total Recoverable	Water	6020	424410
680-122511-8	MWB-3(I)b	Total Recoverable	Water	6020	424410
680-122511-9	MWB-11(1)(R)c	Total Recoverable	Water	6020	424410
680-122511-10	MWB-34(I)d	Total Recoverable	Water	6020	424410
680-122511-11	MWB-32(I)d	Total Recoverable	Water	6020	424410
680-122511-12	Field Blank 02 122511	Total Recoverable	Water	6020	424410
680-122594-1	SW-1	Total Recoverable	Water	6020	424410
680-122594-2	SW-3	Total Recoverable	Water	6020	424410
LCS 680-424410/2-A	Lab Control Sample	Total Recoverable	Water	6020	424410
MB 680-424410/1-A	Method Blank	Total Recoverable	Water	6020	424410

Analysis Batch: 425215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	SM 2340B	
680-122594-2	SW-3	Total/NA	Water	SM 2340B	
MB 680-425215/1	Method Blank	Total/NA	Water	SM 2340B	

Prep Batch: 426225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Dissolved	Water	3005A	
LCS 680-426225/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-426225/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 426470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Dissolved	Water	6020	426225
LCS 680-426225/2-A	Lab Control Sample	Total Recoverable	Water	6020	426225
MB 680-426225/1-A	Method Blank	Total Recoverable	Water	6020	426225

General Chemistry

Analysis Batch: 297187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	SM 5310B	
680-122594-2	SW-3	Total/NA	Water	SM 5310B	
LCS 400-297187/5	Lab Control Sample	Total/NA	Water	SM 5310B	
MB 400-297187/4	Method Blank	Total/NA	Water	SM 5310B	
MRL 400-297187/2	Lab Control Sample	Total/NA	Water	SM 5310B	

Analysis Batch: 423671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total/NA	Water	353.2	
680-122444-2	MWB-29(I)c	Total/NA	Water	353.2	
680-122444-3	MWB-27(I)c	Total/NA	Water	353.2	
680-122444-4	MWB-13(I)c	Total/NA	Water	353.2	
680-122444-5	MWB-12(1)c	Total/NA	Water	353.2	
680-122444-6	Field Blank 01 122444	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 423671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Total/NA	Water	353.2	
680-122444-8	MWB-21(S)c	Total/NA	Water	353.2	
680-122444-9	MWB-29(S)c	Total/NA	Water	353.2	
680-122444-10	MWB-27(S)c	Total/NA	Water	353.2	
680-122444-11	MWB-13(S)c	Total/NA	Water	353.2	
680-122444-12	MWB-12(S)c	Total/NA	Water	353.2	
680-122444-13	MWB-22(S)c	Total/NA	Water	353.2	
LCS 680-423671/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-423671/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 423724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total/NA	Water	2540C-2011	
680-122444-2	MWB-29(I)c	Total/NA	Water	2540C-2011	
680-122444-3	MWB-27(I)c	Total/NA	Water	2540C-2011	
680-122444-4	MWB-13(I)c	Total/NA	Water	2540C-2011	
680-122444-5	MWB-12(1)c	Total/NA	Water	2540C-2011	
LCS 680-423724/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-423724/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-423724/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 423835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total/NA	Water	353.2	
680-122511-2	MWB-20(S)c	Total/NA	Water	353.2	
680-122511-3	MWB-11(S)c	Total/NA	Water	353.2	
680-122511-4	MWB-34(S)d	Total/NA	Water	353.2	
680-122511-5	MWB-33(S)d	Total/NA	Water	353.2	
680-122511-6	MWB-32(S)d	Total/NA	Water	353.2	
680-122511-8	MWB-3(I)b	Total/NA	Water	353.2	
680-122511-8 MS	MWB-3(I)b	Total/NA	Water	353.2	
680-122511-8 MSD	MWB-3(I)b	Total/NA	Water	353.2	
680-122511-9	MWB-11(1)(R)c	Total/NA	Water	353.2	
680-122511-9 DU	MWB-11(1)(R)c	Total/NA	Water	353.2	
680-122511-10	MWB-34(I)d	Total/NA	Water	353.2	
680-122511-11	MWB-32(I)d	Total/NA	Water	353.2	
680-122511-12	Field Blank 02 122511	Total/NA	Water	353.2	
LCS 680-423835/15	Lab Control Sample	Total/NA	Water	353.2	
LCS 680-423835/45	Lab Control Sample	Total/NA	Water	353.2	
MB 680-423835/13	Method Blank	Total/NA	Water	353.2	
MB 680-423835/44	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 423949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-6	Field Blank 01 122444	Total/NA	Water	2540C-2011	
680-122444-7	MWB-2(S)b	Total/NA	Water	2540C-2011	
680-122444-8	MWB-21(S)c	Total/NA	Water	2540C-2011	
680-122444-9	MWB-29(S)c	Total/NA	Water	2540C-2011	
680-122444-10	MWB-27(S)c	Total/NA	Water	2540C-2011	
680-122444-10 DU	MWB-27(S)c	Total/NA	Water	2540C-2011	
680-122444-11	MWB-13(S)c	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 423949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-12	MWB-12(S)c	Total/NA	Water	2540C-2011	
680-122444-13	MWB-22(S)c	Total/NA	Water	2540C-2011	
LCS 680-423949/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-423949/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-423949/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 423986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	4500 P F-2011	
680-122594-2	SW-3	Total/NA	Water	4500 P F-2011	
LCS 680-423986/1	Lab Control Sample	Total/NA	Water	4500 P F-2011	
MB 680-423986/2	Method Blank	Total/NA	Water	4500 P F-2011	

Analysis Batch: 424000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	353.2	
680-122594-2	SW-3	Total/NA	Water	353.2	
LCS 680-424000/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-424000/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 424023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	5210B-2011	
680-122594-2	SW-3	Total/NA	Water	5210B-2011	
LCS 680-424023/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-424023/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-424023/1	Method Blank	Total/NA	Water	5210B-2011	

Analysis Batch: 424068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-1	MWB-3(S)b	Total/NA	Water	2540C-2011	
680-122511-2	MWB-20(S)c	Total/NA	Water	2540C-2011	
680-122511-3	MWB-11(S)c	Total/NA	Water	2540C-2011	
680-122511-3 DU	MWB-11(S)c	Total/NA	Water	2540C-2011	
680-122511-4	MWB-34(S)d	Total/NA	Water	2540C-2011	
680-122511-5	MWB-33(S)d	Total/NA	Water	2540C-2011	
LCS 680-424068/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-424068/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-424068/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 424116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-6	MWB-32(S)d	Total/NA	Water	2540C-2011	
680-122511-6 DU	MWB-32(S)d	Total/NA	Water	2540C-2011	
680-122511-8	MWB-3(I)b	Total/NA	Water	2540C-2011	
680-122511-9	MWB-11(1)(R)c	Total/NA	Water	2540C-2011	
680-122511-10	MWB-34(I)d	Total/NA	Water	2540C-2011	
680-122511-11	MWB-32(I)d	Total/NA	Water	2540C-2011	
680-122511-12	Field Blank 02 122511	Total/NA	Water	2540C-2011	
680-122594-1	SW-1	Total/NA	Water	2540C-2011	
680-122594-1 DU	SW-1	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 424116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-2	SW-3	Total/NA	Water	2540C-2011	
LCS 680-424116/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-424116/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-424116/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 424148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total/NA	Water	350.1	
680-122444-2	MWB-29(I)c	Total/NA	Water	350.1	
680-122444-2 MS	MWB-29(I)c	Total/NA	Water	350.1	
680-122444-2 MSD	MWB-29(I)c	Total/NA	Water	350.1	
680-122444-3	MWB-27(I)c	Total/NA	Water	350.1	
680-122444-4	MWB-13(I)c	Total/NA	Water	350.1	
680-122444-5	MWB-12(1)c	Total/NA	Water	350.1	
680-122444-6	Field Blank 01 122444	Total/NA	Water	350.1	
680-122444-7	MWB-2(S)b	Total/NA	Water	350.1	
680-122444-8	MWB-21(S)c	Total/NA	Water	350.1	
680-122444-9	MWB-29(S)c	Total/NA	Water	350.1	
680-122444-9 DU	MWB-29(S)c	Total/NA	Water	350.1	
680-122444-10	MWB-27(S)c	Total/NA	Water	350.1	
680-122444-11	MWB-13(S)c	Total/NA	Water	350.1	
680-122444-12	MWB-12(S)c	Total/NA	Water	350.1	
LCS 680-424148/1	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-424148/4	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 680-424148/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 424149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-13	MWB-22(S)c	Total/NA	Water	350.1	
680-122511-1	MWB-3(S)b	Total/NA	Water	350.1	
680-122511-1 DU	MWB-3(S)b	Total/NA	Water	350.1	
LCS 680-424149/1	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-424149/4	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 680-424149/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 424150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122511-2	MWB-20(S)c	Total/NA	Water	350.1	
680-122511-2 MS	MWB-20(S)c	Total/NA	Water	350.1	
680-122511-2 MSD	MWB-20(S)c	Total/NA	Water	350.1	
680-122511-3	MWB-11(S)c	Total/NA	Water	350.1	
680-122511-4	MWB-34(S)d	Total/NA	Water	350.1	
680-122511-5	MWB-33(S)d	Total/NA	Water	350.1	
680-122511-6	MWB-32(S)d	Total/NA	Water	350.1	
680-122511-8	MWB-3(I)b	Total/NA	Water	350.1	
680-122511-9	MWB-11(1)(R)c	Total/NA	Water	350.1	
680-122511-10	MWB-34(I)d	Total/NA	Water	350.1	
680-122511-11	MWB-32(I)d	Total/NA	Water	350.1	
680-122511-12	Field Blank 02 122511	Total/NA	Water	350.1	
LCS 680-424150/1	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-424150/4	Lab Control Sample Dup	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 424150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-424150/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 424267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	2540 D-2011	
680-122594-2	SW-3	Total/NA	Water	2540 D-2011	
LCS 680-424267/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-424267/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-424267/1	Method Blank	Total/NA	Water	2540 D-2011	

Analysis Batch: 425049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	Total Nitrogen	
680-122594-2	SW-3	Total/NA	Water	Total Nitrogen	

Analysis Batch: 425062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	UnionizedNH3	
680-122594-2	SW-3	Total/NA	Water	UnionizedNH3	

Prep Batch: 425132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	Digestion	
680-122594-2	SW-3	Total/NA	Water	Digestion	
LCS 680-425132/2-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-425132/1-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 425149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	SM 5220D	
680-122594-2	SW-3	Total/NA	Water	SM 5220D	
LCS 680-425149/4	Lab Control Sample	Total/NA	Water	SM 5220D	
MB 680-425149/3	Method Blank	Total/NA	Water	SM 5220D	

Analysis Batch: 425369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	365.4	425132
680-122594-2	SW-3	Total/NA	Water	365.4	425132
LCS 680-425132/2-A	Lab Control Sample	Total/NA	Water	365.4	425132
MB 680-425132/1-A	Method Blank	Total/NA	Water	365.4	425132

Field Service / Mobile Lab

Analysis Batch: 423799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-1	MWB-2(I)b	Total/NA	Water	Field Sampling	
680-122444-2	MWB-29(I)c	Total/NA	Water	Field Sampling	
680-122444-3	MWB-27(I)c	Total/NA	Water	Field Sampling	
680-122444-4	MWB-13(I)c	Total/NA	Water	Field Sampling	
680-122444-5	MWB-12(1)c	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 423799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122444-7	MWB-2(S)b	Total/NA	Water	Field Sampling	
680-122444-8	MWB-21(S)c	Total/NA	Water	Field Sampling	
680-122444-9	MWB-29(S)c	Total/NA	Water	Field Sampling	
680-122444-10	MWB-27(S)c	Total/NA	Water	Field Sampling	
680-122444-11	MWB-13(S)c	Total/NA	Water	Field Sampling	
680-122444-12	MWB-12(S)c	Total/NA	Water	Field Sampling	
680-122444-13	MWB-22(S)c	Total/NA	Water	Field Sampling	
680-122511-1	MWB-3(S)b	Total/NA	Water	Field Sampling	
680-122511-2	MWB-20(S)c	Total/NA	Water	Field Sampling	
680-122511-3	MWB-11(S)c	Total/NA	Water	Field Sampling	
680-122511-4	MWB-34(S)d	Total/NA	Water	Field Sampling	
680-122511-5	MWB-33(S)d	Total/NA	Water	Field Sampling	
680-122511-6	MWB-32(S)d	Total/NA	Water	Field Sampling	
680-122511-8	MWB-3(I)b	Total/NA	Water	Field Sampling	
680-122511-9	MWB-11(1)(R)c	Total/NA	Water	Field Sampling	
680-122511-10	MWB-34(I)d	Total/NA	Water	Field Sampling	
680-122511-11	MWB-32(I)d	Total/NA	Water	Field Sampling	

Analysis Batch: 424628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122594-1	SW-1	Total/NA	Water	Field Sampling	
680-122594-2	SW-3	Total/NA	Water	Field Sampling	

Client Sample ID: MWB-2(I)b

Lab Sample ID: 680-122444-1
Date Collected: 03/01/16 12:43
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 15:49	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	423879	03/04/16 09:25	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424235	03/07/16 21:25	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423724	03/03/16 10:21	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:12	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:16	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 12:43	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-29(I)c

Lab Sample ID: 680-122444-2
Date Collected: 03/01/16 11:41
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 16:06	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	423879	03/04/16 09:25	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424235	03/07/16 21:30	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423724	03/03/16 10:21	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:03	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:18	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 11:41	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-27(I)c

Lab Sample ID: 680-122444-3
Date Collected: 03/01/16 10:38
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 16:24	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	423879	03/04/16 09:25	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424235	03/07/16 21:35	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: MWB-27(I)c

Lab Sample ID: 680-122444-3
Matrix: Water
Date Collected: 03/01/16 10:38
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423724	03/03/16 10:21	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:12	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:20	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 10:38	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-13(I)c

Lab Sample ID: 680-122444-4
Matrix: Water
Date Collected: 03/01/16 09:33
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 16:41	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	423879	03/04/16 09:25	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424235	03/07/16 21:40	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423724	03/03/16 10:21	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:12	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:21	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 09:33	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-12(1)c

Lab Sample ID: 680-122444-5
Matrix: Water
Date Collected: 03/01/16 07:56
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 16:59	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	423879	03/04/16 09:25	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424235	03/07/16 21:45	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423724	03/03/16 10:21	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:12	JME	TAL SAV
	Instrument ID: KONELAB1									

Client Sample ID: MWB-12(1)c

Lab Sample ID: 680-122444-5
Matrix: Water
Date Collected: 03/01/16 07:56
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:22	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 07:56	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Field Blank 01 122444

Lab Sample ID: 680-122444-6
Matrix: Water
Date Collected: 03/01/16 14:15
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 12:06	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			35.8 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.8 mL	2 mL	423788	03/03/16 20:25	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425179	03/15/16 17:33	AJO	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 18:33	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:13	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:21	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:24	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: MWB-2(S)b

Lab Sample ID: 680-122444-7
Matrix: Water
Date Collected: 03/01/16 13:13
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 13:36	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			32.2 mL	2 mL	423754	03/03/16 12:16	LBH	TAL SAV
Total/NA	Analysis	8011		1	32.2 mL	2 mL	423786	03/03/16 19:16	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		2	5 mL	5 mL	425179	03/15/16 17:16	AJO	TAL SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			50 mL	250 mL	426225	03/23/16 08:41	CRW	TAL SAV

Client Sample ID: MWB-2(S)b

Lab Sample ID: 680-122444-7

Date Collected: 03/01/16 13:13

Matrix: Water

Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6020		1	50 mL	250 mL	426470	03/24/16 02:09	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 18:38	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:16	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:22	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:25	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 13:13	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-21(S)c

Lab Sample ID: 680-122444-8

Date Collected: 03/01/16 13:50

Matrix: Water

Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 13:58	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			34.4 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	34.4 mL	2 mL	423788	03/03/16 21:24	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 14:31	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 18:54	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:19	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:22	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:28	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 13:50	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-29(S)c

Lab Sample ID: 680-122444-9

Date Collected: 03/01/16 12:11
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 14:21	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			35.9 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.9 mL	2 mL	423788	03/03/16 20:54	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 14:48	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 18:59	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:22	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:03	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:29	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 12:11	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-27(S)c

Lab Sample ID: 680-122444-10

Date Collected: 03/01/16 11:08
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 14:43	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			35.9 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.9 mL	2 mL	423788	03/03/16 21:14	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 15:40	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 19:04	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:25	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:22	JME	TAL SAV
	Instrument ID: KONELAB1									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		5	2 mL	2 mL	423671	03/02/16 16:19	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 11:08	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-13(S)c
Date Collected: 03/01/16 10:03
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 15:06	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			34.8 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	34.8 mL	2 mL	423788	03/03/16 21:04	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 15:58	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 19:09	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:28	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:22	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:31	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 10:03	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-12(S)c
Date Collected: 03/01/16 08:25
Date Received: 03/02/16 08:58

Lab Sample ID: 680-122444-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 15:28	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			33.9 mL	2 mL	423754	03/03/16 12:16	LBH	TAL SAV
Total/NA	Analysis	8011		1	33.9 mL	2 mL	423786	03/03/16 19:26	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425400	03/16/16 22:55	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 19:14	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV

Client Sample ID: MWB-12(S)c

Lab Sample ID: 680-122444-12

Date Collected: 03/01/16 08:25
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:31	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424148	03/04/16 12:22	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:32	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 08:25	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-22(S)c

Lab Sample ID: 680-122444-13

Date Collected: 03/01/16 08:58
Matrix: Water
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 15:50	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			36.8 mL	2 mL	423756	03/03/16 12:23	LBH	TAL SAV
Total/NA	Analysis	8011		1	36.8 mL	2 mL	423788	03/03/16 21:34	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 12:11	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424275	03/08/16 10:41	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424450	03/08/16 19:19	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:34	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	423949	03/04/16 12:53	KLD	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424149	03/04/16 12:31	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423671	03/02/16 16:33	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/01/16 08:58	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Trip Blank 01 122444

Lab Sample ID: 680-122444-14
Matrix: Water
Date Collected: 03/01/16 00:00
Date Received: 03/02/16 08:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	424907	03/14/16 11:44	CEJ	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MWB-3(S)b

Lab Sample ID: 680-122511-1
Matrix: Water
Date Collected: 03/02/16 07:43
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 17:23	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.1 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.1 mL	2 mL	424141	03/07/16 18:28	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 17:07	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:11	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 18:45	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424068	03/06/16 11:02	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424149	03/04/16 12:31	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:17	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 07:43	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-20(S)c

Lab Sample ID: 680-122511-2
Matrix: Water
Date Collected: 03/02/16 08:51
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 17:44	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			34.4 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	34.4 mL	2 mL	424141	03/07/16 18:38	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		5	5 mL	5 mL	425674	03/17/16 14:29	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV

Client Sample ID: MWB-20(S)c

Date Collected: 03/02/16 08:51
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:16	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 18:48	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	424068	03/06/16 11:02	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		2	2 mL	2 mL	424150	03/04/16 15:29	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:18	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 08:51	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-11(S)c

Date Collected: 03/02/16 10:08
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 18:05	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.6 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.6 mL	2 mL	424141	03/07/16 15:41	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 17:42	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:21	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 18:51	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424068	03/06/16 11:02	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:50	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:19	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 10:08	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-34(S)d

Lab Sample ID: 680-122511-4

Date Collected: 03/02/16 11:12

Matrix: Water

Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 18:26	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.8 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.8 mL	2 mL	424141	03/07/16 18:08	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		2	5 mL	5 mL	425394	03/16/16 17:59	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:26	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 18:54	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	424068	03/06/16 11:02	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:50	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		25	2 mL	2 mL	423835	03/03/16 15:00	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 11:12	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-33(S)d

Lab Sample ID: 680-122511-5

Date Collected: 03/02/16 11:45

Matrix: Water

Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 18:47	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			34.3 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	34.3 mL	2 mL	424141	03/07/16 17:59	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 18:17	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:31	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 18:58	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	424068	03/06/16 11:02	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:50	JME	TAL SAV
	Instrument ID: KONELAB1									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:20	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 11:45	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-32(S)d

Date Collected: 03/02/16 12:52
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 19:08	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.8 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	33.8 mL	2 mL	424141	03/07/16 18:48	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 19:09	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:36	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:07	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:50	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:22	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 12:52	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Trip Blank 122511

Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 16:20	CEJ	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MWB-3(I)b

Date Collected: 03/02/16 08:16
Date Received: 03/03/16 09:42

Lab Sample ID: 680-122511-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 19:27	JRJ	TAL SAV
	Instrument ID: CICK									

Client Sample ID: MWB-3(I)b

Lab Sample ID: 680-122511-8

Date Collected: 03/02/16 08:16

Matrix: Water

Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:46	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:59	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:28	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 08:16	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 680-122511-9

Date Collected: 03/02/16 09:34

Matrix: Water

Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 19:44	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 22:02	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:59	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:31	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 09:34	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-34(I)d

Lab Sample ID: 680-122511-10

Date Collected: 03/02/16 10:41

Matrix: Water

Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425400	03/16/16 21:46	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 22:07	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-34(I)d

Lab Sample ID: 680-122511-10
Matrix: Water
Date Collected: 03/02/16 10:41
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:59	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:34	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 10:41	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MWB-32(I)d

Lab Sample ID: 680-122511-11
Matrix: Water
Date Collected: 03/02/16 12:20
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	425400	03/16/16 22:38	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 22:12	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:59	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:35	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Analysis	Field Sampling		1			423799	03/02/16 12:20	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Field Blank 02 122511

Lab Sample ID: 680-122511-12
Matrix: Water
Date Collected: 03/02/16 13:15
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 17:02	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.6 mL	2 mL	424121	03/07/16 11:46	LBH	TAL SAV
Total/NA	Analysis	8011		1	35.6 mL	2 mL	424141	03/07/16 17:19	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Analysis	300.0		1	5 mL	5 mL	425394	03/16/16 20:01	JRJ	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/09/16 21:41	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	423886	03/04/16 09:40	JKL	TAL SAV

Client Sample ID: Field Blank 02 122511

Lab Sample ID: 680-122511-12
Matrix: Water
Date Collected: 03/02/16 13:15
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	50 mL	50 mL	424113	03/04/16 19:10	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1		1	2 mL	2 mL	424150	03/04/16 12:59	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	423835	03/03/16 15:36	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: Trip Blank 2 122511

Lab Sample ID: 680-122511-13
Matrix: Water
Date Collected: 03/02/16 00:00
Date Received: 03/03/16 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425168	03/15/16 16:41	CEJ	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: SW-1

Lab Sample ID: 680-122594-1
Matrix: Water
Date Collected: 03/03/16 08:15
Date Received: 03/04/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	425265	03/16/16 17:33	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			31.3 mL	2 mL	424129	03/07/16 11:54	LBH	TAL SAV
Total/NA	Analysis	8011		1	31.3 mL	2 mL	424143	03/07/16 21:15	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	1631E			4 mL	40 mL	297261	03/07/16 16:50	VLC	TAL PEN
Total/NA	Analysis	1631E		1	4 mL	40 mL	297310	03/14/16 14:04	VLC	TAL PEN
	Instrument ID: HYDRA									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/10/16 01:31	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	SM 2340B		1			425215	03/15/16 14:22	BCB	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540 D-2011		1	500 mL	1000 mL	424267	03/08/16 10:28	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	2540C-2011		1	100 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	353.2		1	2 mL	2 mL	424000	03/04/16 15:22	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	*Prep*	*Digestion*			2 mL	20 mL	425132	03/15/16 10:25	ALS	TAL SAV

Client Sample ID: SW-1

Date Collected: 03/03/16 08:15
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	2 mL	20 mL	425369	03/16/16 11:38	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	4500 P F-2011		1	2 mL	2 mL	423986	03/04/16 14:47	GRX	TAL SAV
	Instrument ID: KONELAB2									
Total/NA	Analysis	5210B-2011		1			424023	03/04/16 12:00	OLB	TAL SAV
	Instrument ID: BODAssay+									
Total/NA	Analysis	SM 5220D		10	2 mL	2 mL	425149	03/15/16 11:44	KMN	TAL SAV
	Instrument ID: SPC6									
Total/NA	Analysis	SM 5310B		1			297187	03/09/16 16:47	CLM	TAL PEN
	Instrument ID: TOC-W2									
Total/NA	Analysis	Total Nitrogen		1			425049	03/14/16 15:42	JER	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	UnionizedNH3		1			425062	03/14/16 16:52	JER	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			424628	03/03/16 08:15	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SW-3

Date Collected: 03/03/16 08:45
Date Received: 03/04/16 09:11

Lab Sample ID: 680-122594-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	425265	03/16/16 17:54	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.4 mL	2 mL	424129	03/07/16 11:54	LBH	TAL SAV
Total/NA	Analysis	8011		1	33.4 mL	2 mL	424143	03/07/16 22:14	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	1631E			4 mL	40 mL	297261	03/07/16 16:50	VLC	TAL PEN
Total/NA	Analysis	1631E		1	4 mL	40 mL	297310	03/14/16 14:12	VLC	TAL PEN
	Instrument ID: HYDRA									
Total Recoverable	Prep	3005A			50 mL	250 mL	424410	03/09/16 10:13	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	50 mL	250 mL	424555	03/10/16 01:36	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	SM 2340B		1			425215	03/15/16 14:22	BCB	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540 D-2011		1	250 mL	1000 mL	424267	03/08/16 10:28	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	424116	03/07/16 10:58	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	353.2		5	2 mL	2 mL	424000	03/04/16 15:23	GRX	TAL SAV
	Instrument ID: LACHAT2									
Total/NA	Prep	Digestion			4 mL	20 mL	425132	03/15/16 10:25	ALS	TAL SAV

Client Sample ID: SW-3

Lab Sample ID: 680-122594-2

Date Collected: 03/03/16 08:45

Matrix: Water

Date Received: 03/04/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	4 mL	20 mL	425369	03/16/16 11:37	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	4500 P F-2011		1	2 mL	2 mL	423986	03/04/16 14:47	GRX	TAL SAV
	Instrument ID: KONELAB2									
Total/NA	Analysis	5210B-2011		1			424023	03/04/16 12:00	OLB	TAL SAV
	Instrument ID: BODAssay+									
Total/NA	Analysis	SM 5220D		5	2 mL	2 mL	425149	03/15/16 11:44	KMN	TAL SAV
	Instrument ID: SPC6									
Total/NA	Analysis	SM 5310B		1			297187	03/09/16 16:59	CLM	TAL PEN
	Instrument ID: TOC-W2									
Total/NA	Analysis	Total Nitrogen		1			425049	03/14/16 15:42	JER	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	UnionizedNH3		1			425062	03/14/16 16:52	JER	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			424628	03/03/16 08:45	KEE	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Trip Blank 122594

Lab Sample ID: 680-122594-3

Date Collected: 03/03/16 00:00

Matrix: Water

Date Received: 03/04/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	425265	03/16/16 11:14	CEJ	TAL SAV
	Instrument ID: CMSO2									

Laboratory References:

= Diversified Environmental Laboratories, 3653 Regent Blvd. Suite 509, Jacksonville, FL 32224

ENCO = ENCO-Orlando, 10775 Central Port Drive, Orlando, FL 32824, TEL (407)826-5314

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Diversified Environmental Laboratories, Inc.

Lisa Harvey
Test America
2846 Industrial Plaza Drive
Tallahassee, FL 32301

March 4, 2016

Re:
DELI Project Number: **160303.01**
Client PO Number:
Client Project Description: **Trail Ridge Landfill**

Dear Mrs. Harvey:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
34493	SW-1	03/03/16 08:15	03/03/16 12:56
34494	SW-3	03/03/16 08:45	03/03/16 12:56

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If you have any questions or comments concerning this laboratory report, please do not hesitate to contact us.

Sincerely,

Franklin A. Risk, Jr.
Laboratory Director

Enclosures

This laboratory report consists of a cover page, case narrative page and report page. There may be multiple pages of each. The pages are numbered accordingly. The report may also contain chain of custody forms, project log in forms, QA/QC reports and client worksheets if applicable. The results herein relate only to the items tested or to the samples as received by the laboratory. The report shall not be reproduced except in full, without the written approval of the laboratory. All samples will be disposed of within 30 days of receipt, unless a written request to retain the samples longer is received. All samples referenced in this laboratory report are considered to be environmental samples. The case narrative will contain comments and or notes regarding the samples and analyses.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
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Jacksonville, FL 32224

Phone 904.807.9625
Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc

Case Narrative

March 4, 2016

Test America
Lisa Harvey

Re: DELI Project Number: **160303.01**
Client Project Description: **Trail Ridge Landfill**

Enclosed is the case narrative for the above referenced project:

CN:
-The result for sample 34493 is based on the average of 2 dilutions of 1:10 and 1:20. The Dilution Factor, MDL & PQL for the smallest dilution used in the calculation was reported (1:10).

-The result for sample 34494 is based on the average of 3 dilutions of 1:10, 1:20 and 1:50. The Dilution Factor, MDL & PQL for the smallest dilution used in the calculation was reported (1:10).

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Unless otherwise noted and where applicable:
These samples were received at the proper temperature and with the proper preservation. The samples were analyzed as received, unless otherwise noted. All results in the Quality Control section are labeled appropriately. All results meet the requirements of the NELAP standards, unless otherwise noted. Footnotes are given at the end of the report.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
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Diversified Environmental Laboratories, Inc

Report of Laboratory Analysis

DELI Project Number	Test America
160303.01	Project Description: Trail Ridge Landfill

Report Date: March 4, 2016

DELI Sample Number	34493	Matrix	Non Potable Water
Sample Designation	SW-1	Date/Time Collected	03/03/16 08:15

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	567	CN	cfu/100mL	10	10	10		ADA	03/03/16 13:15

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NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224

Phone 904.807.9625
Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc

Report of Laboratory Analysis

DELI Project Number	Test America
160303.01	Project Description: Trail Ridge Landfill

Report Date: March 4, 2016

DELI Sample Number 34494 — Matrix: Non Potable Water

Sample Designation SW-3 — Date/Time Collected: 03/03/16 08:45

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	56	B,CN	cfu/100mL	10	10	10		ADA	03/03/16 13:15

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Diversified Environmental Laboratories, Inc

Report of Laboratory Analysis

DELI Project Number	Test America
160303.01	Project Description: Trail Ridge Landfill

Report Date: March 4, 2016

Footnotes

B,CN	B=Results based upon colony counts outside the acceptable range. CN=See Case Narrative.
CN	See Case Narrative
NA	Not Applicable
ND	Not Detected/None Detected
U	Compound was analyzed for, but not detected.

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Jacksonville, FL 32224

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Batch No: **B11270**
TestCode: **Coli Fec (MF) 9222D**

Associated Samples: 34493, 34494

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number														*34494*	
Coliform, Fecal	<1 U													18	
Parent Sample Number														*34493*	
Coliform, Fecal	<1 U													8	

* Indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U Compound was analyzed for, but not detected.

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Deli Project # 160303.01

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 640-52387-13360.1
Client Contact: Shannon George	Phone: 225, 907.4060	E-Mail: lisa.harvey@testamericainc.com		Page: Page 1 of 1
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1893(Tel)	PO #: PO105298:4			
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 365.1, Nitrogen, Total	SUBCONTRACT - SM 10200H-Chlorophyll a (ENCO)	5210B - Biochemical Oxygen Demand	2540C, 2540D	5220D - Chemical Oxygen Demand	6020 - App I Metals /2340B - Hardness	SUBCONTRACT - SM9222D-Fecal Coliform (Diversified Env	350.1 - Ammonia / Unionized Ammonia	8260B - Appendix I VOCs	SM5310_TOC_B - Total Organic Carbon	353.2 - Nitrate	8011 - EDB/DBCP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	S	D	N	S	A	O	N	A		
SW-1	3-3	0815	G	W	N		3	2	1	1	1	1	1	1	1	3	3	1	3		34493
SW-3	3-3	0845	G	W	N		3	2	1	1	1	1	1	1	1	3	3	1	3		34494
TRIP	3-3	-	G	W	N											✓					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3-3-16 0915	PRO-TECH		3.3.16 0915	TA
2		3-3-16 1256	TA		3-3-16 1256	DELI
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 / Sample temp 3.8

3/28/2016

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640-Jacksonville

Project Login Form

DELI Project Number: 160303.01 Client Name: Test America

Date Received: 03-03-16 Received by: ADA PLF Completed by: ADA

Courier/Shipper Information:

☑ Client ☐ DEL, Inc. ☐ Other (describe) _____

Type & Number of Shipping Containers:

#	Shipping Container Description	Crushed Ice	Cooler/Ice Temp. C	Sample Cont. Temp. C
1	(Cooler) Box Other:	(Yes) No	0.1	3.8
2	Cooler Box Other:	Yes No		
3	Cooler Box Other:	Yes No		
4	Cooler Box Other:	Yes No		
5	Cooler Box Other:	Yes No		

Note: If thermal preservation was used / required, pick a sample container from each cooler and use the IR gun to measure the sample temperature.

Therm Inv. #: 0364 IR Gun Inv. #: 0332

Other Information Checklist:		YES	NO	NA
1	Were custody seals used for shipping containers(s)?	☐	☑	☐
2	If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☑
3	Were custody seals used for sample containers(s)?	☐	☑	☐
4	If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☑
5	Did custody papers accompany samples? (such as COC, specifics, etc.)	☑	☐	☐
6	Were the custody papers properly filled out?	☑	☐	☐
7	Were the sample containers received in good condition? (If no, see comments)	☑	☐	☐
8	Were the sample container labels properly filled out? (date, time, preservation, etc.)	☑	☐	☐
9	Were the labels on the sample containers and custody papers consistent?	☑	☐	☐
10	Were the samples in the correct containers for analysis?	☑	☐	☐
11	Were the correct preservations used for each sample container according to analysis?	☑	☐	☐
12	Were the samples received within the appropriate holding times?	☑	☐	☐
13	Were pH preservation checks made?	☐	☐	☑
14	Were the sample containers provided by DEL, Inc.?	☐	☑	☐
15	Was this a sample kit provided by DEL, Inc.? If Yes, DEL, Inc. Kit #: n/a	☐	☐	☑
16	Were the VOA vials free of headspace? (No bubbles present)	☐	☐	☑

Are the samples acceptable for analysis? YES If yes, proceed with login. If no, notify client immediately and list rejection reasons in comments area below. Also, please take any needed further action for rejected sample(s).

Container Preservation Check:

Note: VOA vials will not be checked for pH at sample login. The testing laboratory will perform that check during analysis. The pH of microbiological samples will not be checked, due to the risk of contamination. The pH of Oil & Grease samples will not be checked during sample login, due to the potential loss of product.

DEL, Inc. Sample Number	Parameters	Cooler/ Container #	pH upon receipt	Was a preservative added after pH check?	If Yes, which preservative was added? (Incl. Vol.)	Preservative Lot #	New pH value	Sample container size & type?
34493-	Fecal Coli	1	—	Yes / (No)	—	—	—	100mL P
34494				Yes / No				w/ sterile pill
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				

P = Plastic; G = Glass; AG = Amber Glass; TL = Teflon Lid; WM = Wide Mouth

Comments:

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

Friday, March 11, 2016
TestAmerica - Tallahassee (TE021)
Attn: Lisa Harvey
2846 Industrial Plaza Drive
Tallahassee, FL 32301

RE: Laboratory Results for
Project Number: 680-122444, Project Name/Desc: Test America -
ENCO Workorder(s): AZ01497

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Dear Lisa Harvey,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 4, 2016.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

David M. Camacho

David Camacho
Project Manager
Enclosure(s)

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1	Lab ID: AZ01497-01	Sampled: 03/03/16 08:15	Received: 03/04/16 09:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/05/16 08:15 03/18/16	03/04/16 12:30	03/11/16 11:00

Client ID: SW-3	Lab ID: AZ01497-02	Sampled: 03/03/16 08:45	Received: 03/04/16 09:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/05/16 08:45 03/18/16	03/04/16 12:30	03/11/16 11:00

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SAMPLE DETECTION SUMMARY

Client ID: SW-3 **Lab ID:** AZ01497-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	9.9		0.50	0.50	mg/m3	SM 10200H-2001	

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This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: SW-1 **Lab Sample ID:** AZ01497-01 **Received:** 03/04/16 09:30
Matrix: Water **Sampled:** 03/03/16 08:15 **Work Order:** AZ01497
Project: Test America - **Sampled By:** Dan Armour

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Chlorophyll a [42617-16-3]^	0.50	U	mg/m3	1	0.50	0.50	6C04020	SM 10200H-2001	03/11/16 11:00	M1N	

Description: SW-3 **Lab Sample ID:** AZ01497-02 **Received:** 03/04/16 09:30
Matrix: Water **Sampled:** 03/03/16 08:45 **Work Order:** AZ01497
Project: Test America - **Sampled By:** Dan Armour

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Chlorophyll a [42617-16-3]^	**9.9**		mg/m3	1	0.50	0.50	6C04020	SM 10200H-2001	03/11/16 11:00	M1N	

12

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 6C04020 - NO PREP

Blank (6C04020-BLK1) Prepared: 03/04/2016 12:30 Analyzed: 03/11/2016 11:00

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	0.50	U	0.50	mg/m3							

Duplicate (6C04020-DUP1) Prepared: 03/04/2016 12:30 Analyzed: 03/11/2016 11:00

Source: AZ01497-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	1.3		0.50	mg/m3		0.50 U				25	

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FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

AZ01497

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 640-52087.13360.1
Client Contact: Shannon George	Phone: 225, 907.4060	E-Mail: lisa.harvey@testamericainc.com		Page: Page 1 of 1
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1893(Tel)	PO #: PO105298.2			
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 353.1, Nitrogen, Total	SUBCONTRACT - SM 1936CH-Chlorophyll a (ENCO)	5210B - Biochemical Oxygen Demand	2540C, 2540D	5220D - Chemical Oxygen Demand	9030 - App I Metals (2340B - Hardness	SUBCONTRACT - SM9221D-Fecal Coliform (Diversified Env	350.1 - Ammonia / Unionized Ammonia	8260B - Appendix I VOCs	SM5310C_TOC_B - Total Organic Carbon	353.2 - Nitrate	6011 - Extractable	Total Number of containers	Special Instructions/Note:
						X	X	N	S	N	N	N	S	D	N	S	A	O	N	A	X	
SW-1	3-3	0815	G	W	N			3	2	1	1	1	1	1	1	1	3	3	1	3		
SW-3	3-3	0845	G	W	N			3	2	1	1	1	1	1	1	1	3	3	1	3		
TRIP	3-3	-	G	W	N												✓					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-3-16 0915	PRO-TECH		3.3.16 0915	TA
2		3-3-16 1256	TA		3-3-16 1256	DEC1
3		3-3-16 1815	TA		Mar 4 9:30	Logsun

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 0.1 / Sample Temp 5.8 0.9 oa

641 - Jacksonville

Page 161 of 198

3/28/2016

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 640-52388-13361.3
Client Contact: Shannon George	Phone: 225.907.4060	E-Mail: lisa.harvey@testamericainc.com		Page: Page 3 of 3
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:	Analysis Requested		
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1893(Tel)	PO #: PO105298:22			
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Grou	Project #: 64005280			
Site: Florida	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C - Total Dissolved Solids	6020 - 7470 - Appendix I Metals + Fe, Na, Hg	350.1 - Ammonia (as N)	9260B - Appendix I VOCs	300_ORGFM_28D - Chloride	353.2 - Nitrate	8011 - EDB/DBCP	6020 - Iron, Sodium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	A	D		
MWB35	3-2	0743	G	W	N		1	1	1	3	1	2	3			
MWB20S	3-2	0851	G	W	N		1	1	1	3	1	2	3			
MWB11S	3-2	1008	G	W	N		1	1	1	3	1	2	3			
MWB34S	3-2	1112	G	W	N		1	1	1	3	1	2	3			
MWB33S	3-2	1145	G	W	N		1	1	1	3	1	2	3			
MWB32S	3-2	1252	G	W	N		1	1	1	3	1	2	3			
TRIP	3-2	—	G	W	N					✓						

680-122511 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 0.8/1.2 1.0/1.4

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-2-16 1350	PRO-TECH		3.2.16 1350	TA
2		3.2.16 1815	TA		3-3-16 9:48	TA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 640-52388-13361.2
Client Contact: Shannon George	Phone: 225.907.4060	E-Mail: lisa.harvey@testamericainc.com		Page: Page 2 of 3
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1893(Tel)	PO #: PO105298.22			
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C - Total Dissolved Solids	6020 - 7470 - Appendix I Metals + Fe, Na, Hg	350.1 - Ammonia (as N)	8260B - Appendix I VOCs	300_ORGFM_28D - Chloride	353.2 - Nitrate	9011 - EDB/DBCP	6020 - Iron, Sodium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	A	D		
MWB3I	3-2	0816	G	W	N		1		1		1	2		1		
MWB11I(R)	3-2	0934	G	W	N		1		1		1	2		1		
MWB34I	3-2	1041	G	W	N		1		1		1	2		1		
MWB32I	3-2	1220	G	W	N		1		1		1	2		1		
FIELD BLANK 02	3-2	1315	G	W	N		1		1		1	2		1		
																680-122511

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 0.8/1.2 1.0/1.4

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-2-16 1350	PRO-TECH		3-2-16 1350	TA
2		3-2-16 1815	TA		3-3-16 9:45	TA
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Atkins, Amy	Carrier Tracking No(s):	COC No: 640-51857-13124.1
Client Contact: Shannon George	Phone: 225.907.4060	E-Mail: amy.atkins@testamericainc.com		Page: Page 1 of 3
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1893(Tel)	PO #: PO105298:22			Other:
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Grou	Project #: 64005280			
Site: Florida	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C - Total Dissolved Solids	6020 - 7470 - Appendix I Metals + Fe, Na, Hg	350.1 - Ammonia (as N)	8260B - Appendix I VOCs	300_ORGFM_28D - Chloride	353.2 - Nitrate	8011 - EDB/DBCP	6020 - Iron, Sodium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	A	D		
MWB2I	3-1	1243	G	W	N		1		1		1	2		1		
MWB29I	3-1	1141	G	W	N		1		1		1	2		1		
MWB27I	3-1	1038	G	W	N		1		1		1	2		1		
MWB13I	3-1	0933	G	W	N		1		1		1	2		1		
MWB12I	3-1	0756	G	W	N		1		1		1	2		1		

680-122444 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3-1-16 / 1445	Company: PRO-TECH	Received by:	Date/Time: 3.1.16 1445	Company: TA
Relinquished by:	Date/Time: 3.1.16 1815	Company: TA	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: Shawna Murray	Date/Time: 3-2-16 08:58	Company: TA SAV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2 / 0.6 1.3 / 1.7

641-Jacksonville

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Atkins, Amy	Carrier Tracking No(s):	COC No: 640-51857-13124.1
Client Contact: Shannon George	Phone: 225.907.4060	E-Mail: amy.atkins@testamericainc.com		Page: Page 1 of 3
Company: Golder Associates Inc				Job #:

Address: 3730 Chamblee Tucker Road	Due Date Requested:	Analysis Requested
City: Atlanta	TAT Requested (days):	
State, Zip: GA, 30341		
Phone: 770-496-1893(Tel)	PO #: PO105298:22	
Email: sgeorge@golder.com	WO #:	
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280	
Site: Florida	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	25-40C - Total Dissolved Solids	6020 - 7470 - Appendix I Metals + Fe, Na, Hg	350.1 - Ammonia (as N)	8260B - Appendix I VOCs	300_ORGFM_28D - Chloride	353.2 - Nitrate	8011 - EDB/DBCP	6020 - Iron, Sodium	DISSOLVED METALS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	A	D			
FIELD BLANK 01	3-1	1415	G	W	N		1	1	1	3	1	2	3				
MWB25	3-1	1313	G	W	Y		1	1	1	3	1	2	3		1		
MWB21S	3-1	1350	G	W	N		1	1	1	3	1	2	3				
MWB29S	3-1	1211	G	W	N		1	1	1	3	1	2	3				
MWB27S	3-1	1108	G	W	N		1	1	1	3	1	2	3				
MWB13S	3-1	1003	G	W	N		1	1	1	3	1	2	3				
MWB12S	3-1	0825	G	W	N		1	1	1	3	1	2	3				
MWB22S	3-1	0858	G	W	N		1	1	1	3	1	2	3				
TRIP	3-1	—	G	W	N					✓							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-1-16 1445	PEER-TECH		3-1-16 1445	TA
2		3.1.16 1815	TA		Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by: E Munoz Munoz	Date/Time 3-2-16 08:58	Company TASAV

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.2 0.6 1.3 1.7

641-Jacksonville

TestAmerica Tallahassee
2646 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 640-52387-13360 1
Client Contact: Shannon George	Phone: 225.907.4060	E-Mail: lisa.harvey@testamericainc.com		Page: Page 1 of 1
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-496-1693(Tel)	PO #: PO105298.4			
Email: sgeorge@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005260			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 365.1, Nitrogen, Total	SUBCONTRACT - SM 10200H-Chlorophyll a (ENCO)	5210B - Biochemical Oxygen Demand	2540C, 2540D	5220D - Chemical Oxygen Demand	6020 - App I Metals /2340B - Hardness	SUBCONTRACT - SM9222D-Fecal Coliform (Dhorrellied Env)	350.1 - Ammonia / Unionized Ammonia	8260B - Appendix I VOCs	SM5310_TOC_B - Total Organic Carbon	353.2 - Nitrate	8011 - EDB/DBCP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	S	D	N	S	A	S	N	A		
SW-1	3-3	0815	G	W	N		3	2	1	1	1	1	1	1	1	3	3	1	3		
SW-3	3-3	0845	G	W	N		3	2	1	1	1	1	1	1	1	3	3	1	3		
TRIP	3-3	-	G	W	N											V					

680-122594 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements: 680-122594

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-3-16 0915	PRO-TECH		3.3.16 0915	TA
2		3-3-16 1256	TA		3-3-16 1256	DECI
3		3.3.16 1815	TA		3/4/16 09:11	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 | sample temp 3.8 3/4/16

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 680-424237.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lisa.harvey@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 680-122444-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 3/16/2016			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Trail Ridge Landfill Semiannual	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM6310B/ (MOD) Local Method	1631E/1631E_Prep Mercury	Total Number of bottles	Special Instructions/Note:
			Preservation Code:							
SW-1 (680-122594-1)	3/3/16	08:15 Eastern		Water			X	X	6	
SW-3 (680-122594-2)	3/3/16	08:45 Eastern		Water			X	X	6	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	03-04-16 1716			3/5/16 0928	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.4°C IR6

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3/28/2016

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW12I	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 61.5 feet to 71.5 feet	STATIC DEPTH TO WATER (feet): 11.02	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.62			GROUNDWATER ELEVATION (ft NGVD): 113.60	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 71.50 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	PURGING INITIATED AT: 0735	PURGING ENDED AT: 0756	TOTAL VOLUME PURGED (gallons): 5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0746	2.97	2.97	0.27	11.05	4.38	24.4	44	0.1	1.26	50		
0749	0.81	3.78	0.27	11.06	4.73	24.5	44	0.1	0.84	48		
0752	0.81	4.59	0.27	11.06	4.76	24.5	44	0.1	0.90	48		
0755	0.81	5.40	0.27	11.06	4.75	24.5	44	0.1	0.78	48	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0756	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 66.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE COC AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13I	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 58.4 feet to 68.4 feet	STATIC DEPTH TO WATER (feet): 17.81	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.98			GROUNDWATER ELEVATION (ft NGVD): 108.17	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.40 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons)
55.40	55.40	0912	0933	5.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0923	2.64	2.64	0.24	18.02	5.00	25.6	41	0.1	3.81	38		
0926	0.72	3.36	0.24	18.02	5.00	25.6	41	0.2	3.55	36		
0929	0.72	4.08	0.24	18.02	5.00	25.6	41	0.1	4.40	36		
0932	0.72	4.80	0.24	18.03	5.00	25.5	41	0.1	3.45	36	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		0933	NA

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: µm Filtration Equipment Type:
55.40	T	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
*	SEE	SAMPLE	COC	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present: YES (NO)
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27I	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 52.5 feet to 62.5 feet	STATIC DEPTH TO WATER (feet): 8.74	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.63			GROUNDWATER ELEVATION (ft NGVD): 119.89	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 62.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	PURGING INITIATED AT: 1017	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1028	2.86	2.86	0.26	9.02	5.30	20.7	54	0.2	2.66	14		
1031	0.78	3.64	0.26	9.02	5.30	20.7	53	0.1	2.79	14		
1034	0.78	4.42	0.26	9.02	5.31	20.7	53	0.1	3.61	14		
1037	0.78	5.20	0.26	9.02	5.32	20.7	54	0.1	3.81	14	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 57.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW329I	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 53.5 feet to 63.5 feet	STATIC DEPTH TO WATER (feet): 8.07	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.08			GROUNDWATER ELEVATION (ft NGVD): 130.01	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 63.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1141	TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1131	2.75	2.75	0.25	8.20	4.92	23.5	44	0.0	7.71	46		
1134	0.75	3.50	0.25	8.19	4.92	23.4	44	0.0	7.95	45		
1139	0.75	4.25	0.25	8.19	4.92	23.4	44	0.0	7.43	46		
1140	0.75	5.00	0.25	8.20	4.93	23.4	44	0.0	7.31	45	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1141	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 58.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE			4-0-C	AND BOTTLE		ORDER	WORKSHEET	

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB2I	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 51.5 feet to 61.5 feet	STATIC DEPTH TO WATER (feet): 11.25	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 145.73			GROUNDWATER ELEVATION (ft NGVD): 134.48	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 61.50 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	PURGING INITIATED AT: 1222	PURGING ENDED AT: 1243		TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or pS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1233	2.75	2.75	0.25	11.41	4.58	21.4	38	0.2	0.94	42		
1236	0.75	3.50	0.25	11.43	4.60	21.5	38	0.2	1.02	41		
1239	0.75	4.25	0.25	11.43	4.60	21.5	38	0.2	1.30	43		
1242	0.75	5.00	0.25	11.43	4.60	21.5	38	0.2	1.00	42	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 56.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	G-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB22S	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 12.10	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.97			GROUNDWATER ELEVATION (ft NGVD): 114.87	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.00 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	PURGING INITIATED AT: 0838	PURGING ENDED AT: 0858		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0848	1.80	1.80	0.18	12.70	5.91	21.6	319	0.1	0.76	21		
0851	0.54	2.34	0.18	12.70	5.91	21.7	319	0.1	0.97	22		
0854	0.54	2.88	0.18	12.71	5.91	21.7	319	0.1	0.96	22		
0857	0.54	3.42	0.18	12.71	5.91	21.6	319	0.1	1.23	22	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0858	SAMPLING ENDED AT: NA
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): 21.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N)	FILTER SIZE: µm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (ND) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE	G-O-C	AND BOTTLE	ORDER	WORKSHEET				

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW1B12.5	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 14.5 feet to 24.5 feet	STATIC DEPTH TO WATER (feet): 10.78	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.63			GROUNDWATER ELEVATION (ft NGVD): 113.85	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 24.50 feet) + 0.05 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	PURGING INITIATED AT: 0805	PURGING ENDED AT: 0825		TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE* (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0815	1.70	1.70	0.17	12.88	5.61	21.6	362	1.4	36.11	48		
0818	0.51	2.21	0.17	12.89	5.60	21.6	360	1.3	41.03	49		
0821	0.51	2.72	0.17	12.89	5.59	21.6	359	1.3	38.32	49		
0824	0.51	3.23	0.17	13.90	5.59	21.6	359	1.3	40.01	50	BROWN	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0825	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 19.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13S	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16.56 feet to 26.56 feet	STATIC DEPTH TO WATER (feet): 14.23	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.06			GROUNDWATER ELEVATION (ft NGVD): 111.83	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.56 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	PURGING INITIATED AT: 0943	PURGING ENDED AT: 1003	TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0953	1.70	1.70	0.17	14.68	5.80	21.7	278	0.4	11.39	40		
0956	0.51	2.21	0.17	14.68	5.78	21.6	281	0.4	10.80	40		
0959	0.51	2.72	0.17	14.68	5.77	21.6	281	0.4	11.11	42		
1002	0.51	3.23	0.17	14.68	5.77	21.6	282	0.4	11.23	42	Yellow Tint	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.80
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1003	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 21.56	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	G-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW327S | SAMPLE ID: | DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 5.5 feet to 15.5 feet | STATIC DEPTH TO WATER (feet): 7.53 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 128.42 | GROUNDWATER ELEVATION (ft NGVD): 120.89

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (15.50 feet - 7.53 feet) X 0.163 gallons/foot = 1.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 15.50 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | PURGING INITIATED AT: 1048 | PURGING ENDED AT: 1108 | TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1058	1.60	1.60	0.16	7.57	5.30	18.4	247	0.2	4.65	53		
1101	0.48	2.08	0.16	7.60	5.30	18.4	246	0.2	4.76	52		
1104	0.48	2.56	0.16	7.61	5.30	18.4	246	0.1	3.97	51		
1107	0.48	3.04	0.16	7.61	5.31	18.4	246	0.1	3.40	50	NONE	
					5.31							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1108 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	G-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB295	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 8.02	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.02			GROUNDWATER ELEVATION (ft NGVD): 130.00	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1151	PURGING ENDED AT: 1211	TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1201	1.60	1.60	0.16	8.53	4.38	18.4	58	0.0	1.52	64		
1204	0.48	2.08	0.16	8.53	4.40	18.4	58	0.0	1.39	64		
1207	0.48	2.56	0.16	8.54	4.39	18.4	59	0.0	1.07	63		
1210	0.48	3.04	0.16	8.54	4.40	18.4	59	0.0	1.51	64	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1211	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	G-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present YES (NO)
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB21S	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 10.78	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 122.84			GROUNDWATER ELEVATION (ft NGVD): 112.06	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.00 feet - 10.78 feet) X 0.163 gallons/foot = 1.18 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 18.00 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1340	1.60	1.60	0.16	11.88	4.91	22.6	102	0.2	4.01	59		
1343	0.48	2.08	0.16	11.88	4.90	22.6	103	0.2	3.33	59		
1346	0.48	2.56	0.16	11.88	4.90	22.6	103	0.2	3.05	58		
1349	0.48	3.04	0.16	11.88	4.90	22.6	103	0.2	2.99	58	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 13.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB2S	SAMPLE ID:		DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 9.40	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 146.64			GROUNDWATER ELEVATION (ft NGVD): 137.24	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1253	PURGING ENDED AT: 1313	TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1303	1.60	1.60	0.16	9.91	5.00	21.2	50	1.3	117.3	130		
1306	0.48	2.08	0.16	9.91	4.98	21.2	49	1.3	122.6	126		
1309	0.48	2.56	0.16	9.91	4.97	21.3	48	1.4	128.8	125		
1312	0.48	3.04	0.16	9.91	4.97	21.3	47	1.4	139.9	124	BROWN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1313	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type: IN LINE	FILTER SIZE: 1.00 MICRON
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present: YES (NO)
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: FIELD BLANK 01 | SAMPLE ID: | DATE: 3-1-16

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA

WELL ELEVATION TOC (ft NGVD): — | GROUNDWATER ELEVATION (ft NGVD): —

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1415	NA	NA	NA	NA	6.71	23.3	3	0.7	0.00	-17	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1415	SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): NA | TUBING MATERIAL CODE: NA | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
X	SEE	SAMPLE	COC	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO) FB - COMPLETED USING D.I. H2O PROVIDED BY TEST AMERICA

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB32S | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 9.9 feet to 19.9 feet | STATIC DEPTH TO WATER (feet): 8.72 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.64 | GROUNDWATER ELEVATION (ft NGVD): 115.92

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (19.90 feet - 8.72 feet) X 0.163 gallons/foot = 1.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 19.90 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | PURGING INITIATED AT: 1231 | PURGING ENDED AT: 1252 | TOTAL VOLUME PURGED (gallons): 3.57

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1242	1.87	1.87	0.17	10.53	4.98	21.6	136	0.1	5.44	13		
1245	0.51	2.38	0.17	10.53	4.96	21.4	139	0.1	6.22	10		
1248	0.51	2.89	0.17	10.53	4.99	21.5	141	0.1	6.23	9		
1251	0.51	3.40	0.17	10.53	5.01	21.5	143	0.1	6.82	9	Brownish/ Yellow Tint	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1252 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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FORM FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB33J	SAMPLE ID:		DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.3 feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 10.43	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.90			GROUNDWATER ELEVATION (ft NGVD): 115.47	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (20.30 feet - 10.43 feet) X 0.163 gallons/foot = 1.61 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 20.30 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	PURGING INITIATED AT: 1124	PURGING ENDED AT: 1145	TOTAL VOLUME PURGED (gallons): 3.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1135	1.76	1.76	0.16	10.52	5.86	22.2	314	0.2	3.53	13		
1138	0.48	2.24	0.16	10.53	5.86	22.2	314	0.2	3.17	11		
1141	0.48	2.72	0.16	10.53	5.86	22.2	314	0.2	4.60	11		
1144	0.48	3.20	0.16	10.53	5.86	22.3	314	0.2	4.15	10	SLT. YELLOW TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1145	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB34S | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 8.36 feet to 18.36 feet | STATIC DEPTH TO WATER (feet): 9.20 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.78 | GROUNDWATER ELEVATION (ft NGVD): 116.58

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.36 feet - 9.20 feet) X 0.163 gallons/foot = 1.49 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 18.36 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | PURGING INITIATED AT: 1052 | PURGING ENDED AT: 1112 | TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1102	1.60	1.60	0.16	9.57	6.24	22.0	794	0.3	2.58	23		
1105	0.48	2.08	0.16	9.57	6.25	22.1	790	0.3	2.07	24		
1108	0.48	2.56	0.16	9.57	6.25	22.0	791	0.3	2.28	23		
1111	0.48	3.04	0.16	9.57	6.26	22.0	789	0.3	2.34	22	NONE	
											TO SLT.	
											YELLOW	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1112 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (ND) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW813S | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet | STATIC DEPTH TO WATER (feet): 12.39 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 120.81 | GROUNDWATER ELEVATION (ft NGVD): 108.42

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (19.50 feet - 12.39 feet) X 0.163 gallons/foot = 1.16 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 19.50 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50 | PURGING INITIATED AT: 0948 | PURGING ENDED AT: 1008 | TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0958	1.60	1.60	0.16	12.48	4.03	21.5	160	0.2	2.02	330		
1001	0.48	2.08	0.16	12.48	4.03	21.4	160	0.1	1.42	328		
1004	0.48	2.56	0.16	12.48	4.03	21.4	160	0.1	1.24	327		
1007	0.48	3.04	0.16	12.48	4.03	21.4	160	0.1	1.63	325	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1008 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 14.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB20S | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 9.42 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 121.01 | GROUNDWATER ELEVATION (ft NGVD): 111.59

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 0831 | PURGING ENDED AT: 0851 | TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0841	1.60	1.60	0.16	9.58	4.13	20.5	449	0.1	4.66	73		
0844	0.48	2.08	0.16	9.58	4.13	20.6	448	0.1	4.09	71		
0847	0.48	2.56	0.16	9.58	4.13	20.5	450	0.1	3.54	71		
0850	0.48	3.04	0.16	9.59	4.13	20.6	451	0.1	4.27	71	NONE	
											* CLEAR	
											WITH SOME	
											TINY BLACK	
											SPECS	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0851 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB3S | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 8.11 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 154.38 | GROUNDWATER ELEVATION (ft NGVD): 146.27

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 0723 | PURGING ENDED AT: 0743 | TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0733	1.70	1.70	0.17	9.22	4.45	18.8	56	0.3	3.67	183		
0736	0.51	2.21	0.17	9.22	4.46	18.8	57	0.2	3.83	178		
0739	0.51	2.72	0.17	9.22	4.46	18.8	57	0.2	3.56	178		
0742	0.51	3.23	0.17	9.22	4.45	18.7	53	0.2	3.41	177	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0743 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FIELD BLANK 02	SAMPLE ID:		DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): —			GROUNDWATER ELEVATION (ft NGVD): —		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA		TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1315	NA	NA	NA	NA	6.78	23.6	~~5~~	0.5	0.00	-22	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1315	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y N (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~*~~	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present YES (NO) FB - COMPLETED USING D.I. H2O PROVIDED BY TEST AMERICA

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB32I | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 54.56 feet to 69.56 feet | STATIC DEPTH TO WATER (feet): 9.42 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.79 | GROUNDWATER ELEVATION (ft NGVD): 115.37

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 64.56 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | PURGING INITIATED AT: 1158 | PURGING ENDED AT: 1220 | TOTAL VOLUME PURGED (gallons): 5.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1210	3.12	3.12	0.26	9.51	5.25	22.0	44	0.2	8.92	6.		
1213	0.78	3.90	0.26	9.52	5.24	22.0	44	0.1	9.40	5		
1216	0.78	4.68	0.26	9.52	5.24	21.9	44	0.1	10.03	4		
1219	0.78	5.46	0.26	9.52	5.24	21.9	44	0.1	10.46	4	SLT.	
											WHITISH	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1220 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB34I | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 43.95 feet to 53.95 feet | STATIC DEPTH TO WATER (feet): 10.48 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.80 | GROUNDWATER ELEVATION (ft NGVD): 115.32

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 53.95 feet) + 0.05 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | PURGING INITIATED AT: 1020 | PURGING ENDED AT: 1041 | TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1031	2.75	2.75	0.25	10.55	5.05	25.5	46	0.0	4.85	22		
1034	0.75	3.50	0.25	10.55	5.05	25.5	46	0.0	4.97	21		
1037	0.75	4.25	0.25	10.55	5.04	25.6	46	0.0	4.11	20		
1040	0.75	5.00	0.25	10.55	5.03	25.6	46	0.0	4.90	20	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1041 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB11I (R) | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 45 feet to 55 feet | STATIC DEPTH TO WATER (feet): 19.79 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 120.43 | GROUNDWATER ELEVATION (ft NGVD): 100.64

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 55.00 feet) + 0.05 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | PURGING INITIATED AT: 0913 | PURGING ENDED AT: 0934 | TOTAL VOLUME PURGED (gallons): 4.83

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0924	2.53	2.53	0.23	20.66	4.77	24.2	40	0.0	2.34	23		
0927	0.69	3.22	0.23	20.68	4.77	24.3	41	0.0	3.24	26		
0930	0.69	3.91	0.23	20.69	4.76	24.2	40	0.0	3.09	26		
0933	0.69	4.60	0.23	20.69	4.77	24.3	40	0.0	3.71	26	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0934 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB3I | SAMPLE ID: | DATE: 3-2-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 52 feet to 62 feet | STATIC DEPTH TO WATER (feet): 14.42 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 151.86 | GROUNDWATER ELEVATION (ft NGVD): 137.44

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 62.00 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | PURGING INITIATED AT: 0755 | PURGING ENDED AT: 0816 | TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0806	2.75	2.75	0.25	16.48	4.55	20.7	41	0.0	0.39	41		
0809	0.75	3.50	0.25	16.48	4.55	20.7	41	0.0	0.19	40		
0812	0.75	4.25	0.25	16.49	4.55	20.7	41	0.0	0.60	40		
0815	0.75	5.00	0.25	16.49	4.55	20.7	41	0.0	0.17	39	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0816 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-1	SAMPLE ID:	DATE: 3-3-16

PURGING DATA

WELL DIAMETER (inches):	NA	TUBING DIAMETER (inches):	NA	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet):	NA	PURGE PUMP TYPE OR BAILER:	NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	NA	PURGING INITIATED AT:	NA	PURGING ENDED AT:	NA	TOTAL VOLUME PURGED (gallons):	NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR (describe)~~ ORP (mV)
0815	NA	NA	NA	NA	6.32	11.7	99	7.9	114.8	DARK BROWN	91

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0815	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	NA	TUBING MATERIAL CODE:	NA	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
*	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO SW-1 = SURFACE WATER POINT

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL	
WELL NO:	SW-3	SAMPLE ID:		DATE: 3-3-16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
NA	NA		NA	NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA	NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (~~describe~~) (mV)
0845	NA	NA	NA	NA	6.64	15.7	519	4.26	173.9	BROWN	93

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		0845	NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
NA	NA		

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No SW-3 = SURFACE WATER POINT

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 680-122444-1

Login Number: 122444
List Number: 1
Creator: Murray, Thomas J

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 680-122444-1

Login Number: 122511
List Number: 1
Creator: White, Menica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Two trip blanks received, one listed on the COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	Field Blank listed on incorrect COC for analysis types.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 680-122444-1

Login Number: 122594
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 680-122444-1

Login Number: 122594
List Number: 2
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 03/05/16 01:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.4°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Certification Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 680-122444-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-16

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	05-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

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Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-16
Georgia	State Program	4		06-30-16
Louisiana	NELAP	6	30663	06-30-16
USDA	Federal		P330-08-00158	10-14-17

* Certification renewal pending - certification considered valid.

APPENDIX C
HYDRAULIC GRADIENT CALCULATIONS

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-025-SO-01 / WACS Facility ID 33628

Made by: ALM
Checked by: CRG
Reviewed by: LS

Purpose: To determine groundwater flow direction and calculate horizontal hydraulic gradients for shallow, intermediate, and deep portions of the surficial aquifer at the Trail Ridge Landfill.

Method for Determination of Horizontal Hydraulic Gradient:

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{\underline{AB}}$$

Where:

i	Hydraulic gradient (dimensionless)
Δh	Difference of hydraulic head
Δs	Horizontal distance between two points
$GWE_{A, B}$	Groundwater elevation of points A and B (in feet)
$\underline{AB}$	The horizontal distance between points A and B (in feet), where AB is perpendicular to potentiometric contours

Using the following groundwater elevation data:

	GWE_A	GWE_B
Shallow	140' contour	MWB-22(S)
Intermediate	130' contour	MWB-12(I)
Deep	130' contour	MWB-12 (D)

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Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-025-SO-01 / WACS Facility ID 33628

Made by: ALM
Checked by: CRG
Reviewed by: LS

Goal: Calculate the hydraulic gradient for the surficial aquifer - shallow depth

Condition: Static

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{AB}$$

Shallow gradient:

$$i = \frac{\text{140' contour - MWB-22(S)}}{2450'} = \frac{\text{140' - 114.87'}}{2450'}$$

i =	0.010	ft/ft

Intermediate gradient:

$$i = \frac{\text{130' contour - MWB-12(I)}}{1700'} = \frac{\text{135' - 113.60'}}{1700'}$$

i =	0.010	ft/ft

Deep gradient:

$$i = \frac{\text{130' contour - MWB-12 (D)}}{1550'} = \frac{\text{130' - 116.00'}}{1550'}$$

i =	0.009	ft/ft

Average gradient:

i =	0.010	ft/ft

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Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-025-SO-01 / WACS Facility ID 33628

Made by: ALM
Checked by: CRG
Reviewed by: LS

Horizontal Hydraulic Gradients:

Shallow horizontal gradient is	0.010	ft/ft
Intermediate horizontal gradient is	0.010	ft/ft
Deep horizontal gradient is	0.009	ft/ft
Average horizontal gradient is	0.010	ft/ft

Groundwater Flow Direction:

Groundwater flow is to the east moving perpendicular to potentiometric contours from high to low hydraulic head values.

APPENDIX E
GROUNDWATER MONITORING REPORT CERTIFICATION

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Trail Ridge Landfill, Inc.

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number (850)474-8846

(2) WACS Facility ID 33628

(3) DEP Permit Number 0013495-025-SO-01

(4) Authorized Representative's Name Eric Parker Title Env. Protection Manager

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number (904)289-9100 Ex. 212

Email address (if available) EParker1@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

4/14/2016
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Tech. Support Services (ProTech)

Analytical Lab NELAC / HRS Certification # Florida E87052

Lab Name TestAmerica Laboratories, Inc. / TestAmerica Savannah

Address 5102 LaRoche Avenue, Savannah, GA 31404

Phone Number (912)354-7858

Email address (if available) lisa.harvey@testamericainc.com

At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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Golder Associates

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