REPORT

SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT AUGUST 2014 EVENT

Trail Ridge Landfill

5110 U.S. Highway 301

Duval County, Baldwin, Florida 32234

FDEP Permit Number 0013493-025-SO-01

WACS ID Number NED/16/00033628

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

Florida Department of Environmental Protection
Solid Waste Section
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October 2014 **1302576**

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Golder Associates

October 6, 2014 1302576

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 AUGUST 2014 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 August 2014 semi-annual detection monitoring event for the Trail Ridge Landfill owned by the City of Jacksonville and operated by Waste Management under Florida Department of Environmental Protection Permit Number 0013493-025-SO-01 and WACS ID Number NED/16/00033628. 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.

Shannon George
Staff Hydrogeologist

Richard W. Poff, P.G.
Senior Hydrogeologist

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

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1.0 INTRODUCTION

The Trail Ridge Municipal Landfill (Site) is owned by the City of Jacksonville and operated by Waste Management 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 and Duval County.

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 second 2014 semi-annual groundwater and surface water monitoring event conducted in August 19th and 20th, 2014. 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 historic 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).

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); and
- Nine (9) intermediate wells: MWB-2(I), MWB-3(I), MWB-11(I), MWB-12(I), MWB-13(I), MWB-27(I), MWB-29(I), MWB-32(I), MWB-34(I)

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

- Nine (9) deep wells: MWB-7(D), MWB-12(D), MWB-14(D), MWB-25(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 because they are located 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 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. It was determined during a quality assurance audit by Waste Management that samples historically designated as SW-1 were not collected from the proper location. The FDEP was notified of this location correction on May 5, 2014 via telephone by Waste Management, and in a letter dated May 8, 2014. The corrected location for SW-1 is shown on Figure 2. Surface water monitoring location SW-1 is

located in a wetland approximately 200 feet south of the facility's stormwater retention basin. SW-3 is sampled at the discharge point if actively discharging or directly from the pond if there is no active discharge.

3.0 DATA COLLECTION METHODS

3.1 Groundwater Elevation Measurements

ProTech field personnel measured water levels in Site monitoring wells on August 19, 2014 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 August 2014 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 twenty-two monitoring wells between August 19^{th,} and 20^{th,} 2014. 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; and 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, 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 August 20, 2014, surface water samples were collected from two surface water monitoring points using a dipper or laboratory-provided container. Field parameters including pH, specific conductance, temperature, turbidity, dissolved oxygen, oxidation-reduction potential, and color/sheen (by observation) were recorded at the time of sampling. 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–Tallahassee (TestAmerica), a Florida-certified laboratory (NELAP certification ID E81005), analyzed groundwater and surface water samples collected in August 2014, for the parameters identified in Appendix 3 Section II and Section III, respectively, of the facility permit.

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 August 19, 2014, and top of well casing elevations surveyed relative to the National Geodetic Vertical Datum (NGVD) provided in 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 August 2014 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) along a flow path oriented perpendicular to the potentiometric contours. The intermediate average horizontal hydraulic gradient was calculated between the 135-foot potentiometric contour and MWB-12(I) (Figure 4) along a flow path oriented perpendicular to the potentiometric contours. The deep average horizontal hydraulic gradient was calculated between the MWB-31(D) and 120-foot potentiometric contour and (Figure 5) 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 0.009 ft/ft. The results are 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 one field blank during the August 2014 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound 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 640-49932-1 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 was biased high for acrylonitrile (batch 346586); associated results were qualified with a "J" or "UJ", where results are non-detect.
- MS/MSD recoveries (batch 228490) were outside control limits; sample matrix interference and/or non-homogeneity are suspected because associated LCS/LSCD recoveries were within acceptance limits.
- Samples MWB-21(S), MWB-2(I), and MWB-2(S) were received outside of the 48-hour holding time for Nitrate-Nitrite (method 353.2); detected results were qualified "Q."
- Samples MWB-3(I) and MWB-3(S) were received with minimal time remaining; in turn, the laboratory had insufficient time to preform analysis within the 48-hour holding time.

In addition, the subcontract laboratory (Diversified Environmental Laboratories, Inc.) qualified fecal coliform results for SW-3 results based on colony counts outside the acceptable range (B).

Other QA/QC issues were not identified; therefore, the remaining results from the August 2014 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; and 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 20 nephelometric turbidity units (NTUs) with the exception of well MWB-2(S), which had a turbidity value of 85.22 NTUs. 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. Permit Conditions 45.c and 45.d require that the water quality standards for Class G-II groundwater (Rule 62-520.420) will not be exceeded at the zone of discharge boundary and that minimum criteria for groundwater (Rule 62-520.400) are not violated within the zone of discharge.

The primary maximum contaminant levels (MCLs) and secondary maximum contaminant levels (SMCLs) for parameters included in laboratory analysis are listed on Tables 2A through 2C. 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.

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 ground water 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 August 2014 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 at one or more wells. These exceedances are summarized below.

Iron (SMCL 0.3 mg/L)

- Shallow wells: MWB-2(S), MWB-3(S), MWB-11(S), MWB-13(S), MWB-21(S), MWB-27(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-34(I)

pH (SMCL 6.5 to 8.5)

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

Total lead concentration at background well MWB-2(S) exceeded the associated MCL. However, the laboratory measured dissolved lead at MWB-2(S) and the dissolved lead result was non-detect. Low-level lead detections have historically been measured at this location; and therefore entrained sediment, as evidenced by the elevated turbidity at this well is the likely source of the above-MCL lead concentration and the dissolved lead results are likely representative of groundwater conditions at this location. MWB-2(S) is a Site background monitoring well, and therefore it is highly unlikely that this location has been affected by activities at the landfill as it is upgradient with respect to the waste unit. It is recommended that the field sampling staff make efforts to reduce turbidity in this well at the time of sampling during the March 2015 sampling event so that total lead results are representative of groundwater conditions at that location. If elevated turbidity values are observed at MWB-2S during the March 2015 event, Waste Management will re-develop the well prior to sampling.

Iron and pH have been historically detected at concentrations exceeding the applicable SMCL and reported to FDEP; no new 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. Further discussion regarding the natural occurrence of iron and low pH is provided in Section 7.0.

6.2 Surface Water

6.2.1 Established Standards

Facility permit Appendix 3 Section 1.4 requires that surface water discharges shall not exceed quality standards for drinking water or surface water. In this case, drinking and surface water quality standards under F.A.C. Chapter 62-302 apply.

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 which require standard calculation, including cadmium, chromium, copper, lead, nickel, and zinc.

6.2.2 Comparison of Surface Water Data to Established Standards

The surface water monitoring results from August 2014 met minimum criteria established under F.A.C. Chapter 62-302.500. The following detections exceeded Class I/III surface water quality standards identified in Table 3 (laboratory parameters), Table 4 (field parameters), and/or Table 5 (calculated standards):

- Ammonia Un-ionized (NH_3) at SW-3
- Coliform Fecal at SW-1

The parameters above have been historically detected at concentrations exceeding the applicable SMCL in surface water samples at the Site and do not represent a likely landfill impact.

7.0 DISCUSSION AND RECOMMENDATIONS

During the August 2014 event, several analytes were detected in groundwater and/or surface water samples at concentrations exceeding applicable drinking water and/or surface water quality standards. These include iron, lead, and pH for groundwater; and unionized ammonia and coliform for surface water.

Total lead was detected above MCL at background well MWB-2(S) and is likely unrelated to landfill activities as it is located upgradient with respect to the waste unit. The dissolved lead result was non-detect. Low-level lead detections have historically been measured at this location, and therefore entrained sediment likely biased the total lead results high, resulting in an exceedance. It is recommended that the field sampling staff make efforts to reduce turbidity in this well at the time of sampling during the March 2015 sampling event so that total lead results are representative of groundwater conditions at that location. If elevated turbidity is observed at MWB-2S during the March 2015 event, Waste Management will re-develop the well prior to sampling.

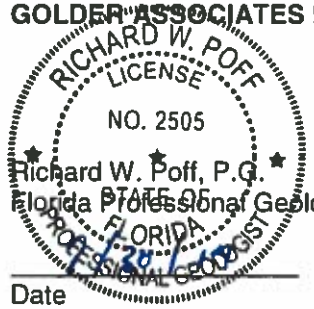
Iron and pH have been historically detected at concentrations exceeding the applicable SMCL and reported to FDEP; no new exceedances require reporting under F.A.C. Chapter 62-701.510. Iron and pH have also been detected in background wells at concentrations greater than (or, in the case of pH, less than) the associated SMCL. These SMCL exceedances, therefore, appear to be related to natural subsurface conditions rather than landfill impacts.

Analyte detections and standard exceedances observed during this event for both groundwater and surface water are consistent with historical conditions and/or background water quality. 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 March 30, 2015.

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.



Richard W. Poff, P.G.
Florida Professional Geologist No. 2505

Date

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.

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	9.85	136.79
MWB-3(S)	154.38	10.00 to 20.00	8.60	145.78
MWB-7(S)	123.29	10.00 to 20.00	8.81	114.48
MWB-11(S)	120.81	9.50 to 19.50	12.40	108.41
MWB-12(S)	124.63	14.50 to 24.50	10.90	113.73
MWB-13(S)	126.05	16.56 to 26.56	16.72	109.33
MWB-20(S)	121.01	10.00 to 20.00	8.20	112.81
MWB-21(S)	122.84	13.00 to 18.00	10.90	111.94
MWB-22(S)	126.97	16.00 to 26.00	12.57	114.40
MWB-27(S)	128.42	10.50 to 15.50	7.15	121.27
MWB-29(S)	138.02	10.00 to 20.00	8.55	129.47
MWB-32(S)	124.64	14.90 to 19.90	8.86	115.78
MWB-33(S)	125.90	10.30 to 20.30	10.60	115.30
MWB-34(S)	125.78	13.36 to 18.36	9.87	115.91
Intermediate Wells				
MWB-2(I)	145.73	51.50 to 61.50	11.48	134.25
MWB-3(I)	151.86	52.00 to 62.00	14.02	137.84
MWB-7(I)	121.53	55.00 to 65.00	4.40	117.13
MWB-11(IR)	120.43	45.00 to 55.00	12.20	108.23
MWB-12(I)	124.62	61.50 to 71.50	7.98	116.64
MWB-13(I)	125.98	50.40 to 60.40	18.02	107.96
MWB-27(I)	128.63	52.50 to 62.50	6.62	122.01
MWB-29(I)	138.08	53.50 to 63.50	7.42	130.66
MWB-32(I)	124.79	54.56 to 64.56	7.77	117.02
MWB-34(I)	125.80	43.95 to 53.95	9.05	116.75
Deep Wells				
MWB-7(D)	121.65	107.00 to 117.00	1.93	119.72
MWB-12(D)	124.56	102.00 to 112.00	5.53	119.03
MWB-27(D)	128.88	110.00 to 110.00	7.00	121.88
MWB-29(D)	138.18	100.50 to 110.50	7.57	130.61
MWB-31(D)	156.15	119.00 to 129.00	18.89	137.26
MWB-32(D)	124.93	98.81 to 108.81	8.07	116.86
MWB-34(D)	125.92	90.78 to 100.78	9.26	116.66

Notes:

TOC - top of casing; ft BTOC - feet below top of casing; ft MSL - feet above mean sea level

Depth to water measurements collected by ProTech on August 19, 2014. Top of casing elevations based on groundwater well survey data provided in October 2010 potentiometric maps (HDR Engineering).

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 8260										
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L	200		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dibromoethane	ug/L	0.02		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L	600		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	ug/L	3		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichloropropane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L	75		< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	ug/L			< 5	< 5	< 5	< 5	**5.1 I**	< 5	< 5
Acrylonitrile	ug/L			< 7.2 UJ	< 7.2 UJ	< 7.2 UJ	< 7.2	< 7.2	< 7.2 UJ	< 7.2 UJ
Benzene	ug/L	1		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Carbon tetrachloride	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L	100		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroform	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L	70		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	ug/L	5		< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	ug/L	100		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L	1000		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L	100		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/L	3		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28 UJ	< 0.28 UJ	< 0.28 UJ	< 0.28	< 0.28	< 0.28 UJ	< 0.28 UJ
Vinyl chloride	ug/L	1		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Xylenes, Total	ug/L	10000		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Laboratory Method EPA 8011										
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0054	< 0.0054	< 0.0054	< 0.0053	< 0.0052	< 0.0052	**0.0079 I**
1,2-Dibromoethane	ug/L	0.02		< 0.0024	< 0.0024	< 0.0024	< 0.0023	< 0.0023	< 0.0023	< 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; J - Approximate value.

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 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L	200		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dibromoethane	ug/L	0.02		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L	600		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	ug/L	3		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichloropropane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L	75		< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
Acetone	ug/L			< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2 UJ	< 7.2 UJ	< 7.2 UJ
Benzene	ug/L	1		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Carbon tetrachloride	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L	100		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2	< 2	< 2
Chloroform	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L	70		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	ug/L	5		< 1	< 1	< 1	< 1	< 1	< 1
Styrene	ug/L	100		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L	1000		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L	100		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/L	3		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28	< 0.28	< 0.28 UJ	< 0.28 UJ	< 0.28 UJ
Vinyl chloride	ug/L	1		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Xylenes, Total	ug/L	10000		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0054	< 0.0052	< 0.0053	< 0.0052	< 0.0051
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0024	< 0.0023	< 0.0023	< 0.0023	< 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)

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

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	**12**	**10**	**20**	**60**	**25**	**8**	**6**
Laboratory Method EPA 350.1										
Ammonia (N)	ug/L			**180**	**120**	**120**	< 26	**710**	**270**	**150**
Laboratory Method EPA 353.2 (Nitrate (N))										
Nitrate (N)	mg/L	10		**0.03 IQ**	< 0.01 Q	< 0.01 UJ	**0.1**	**0.42**	< 0.01 UJ	< 0.01 Q
Laboratory Method EPA 6020										
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		**3.1**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**80**	**15**	**69**	**2.3 I**	**5**	**11**	**16**
Beryllium	ug/L	4		**0.79**	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095	**0.2 I**	< 0.095	< 0.095
Chromium	ug/L	100		**20**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			**3.3**	< 0.15	**0.56**	< 0.15	< 0.15	< 0.15 I	< 0.15
Copper	ug/L		1000	**7.2**	< 1.1	< 1.1	< 1.1	**11**	**1.3 I**	< 1.1
Iron	ug/L		300	**10000**	**3500**	**1700**	**79 I**	**600**	**180**	**590**
Lead	ug/L	15		**16**	**0.25 I**	< 0.2	< 0.2	**0.36 I**	**0.48 I**	< 0.2
Nickel	ug/L	100		**8.6**	< 2	< 2	**3.9 I**	**2.8 I**	< 2	< 2
Selenium	ug/L	50		**1.5 I**	< 1	< 1	**2.7**	**3**	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**7200**	**5800**	**12000**	**38000**	**23000**	**4300**	**3400**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			**26**	< 3.8	**7.5 I**	**48**	**31**	< 3.8	< 3.8
Zinc	ug/L		5000	**16 I**	< 8.3	< 8.3	< 8.3	**13 I**	< 8.3	< 8.3
Laboratory Method EPA 6020										
Antimony, dissolved	ug/L	6		< 2.3	NA	NA	NA	NA	NA	NA
Arsenic, dissolved	ug/L	10		< 1.3	NA	NA	NA	NA	NA	NA
Barium, dissolved	ug/L	2000		**11**	NA	NA	NA	NA	NA	NA
Beryllium, dissolved	ug/L	4		< 0.25	NA	NA	NA	NA	NA	NA
Cadmium, dissolved	ug/L	5		< 0.095	NA	NA	NA	NA	NA	NA
Chromium, dissolved	ug/L	100		< 2.5	NA	NA	NA	NA	NA	NA
Cobalt, dissolved	ug/L			**0.21 I**	NA	NA	NA	NA	NA	NA
Copper, dissolved	ug/L		1000	< 1.1	NA	NA	NA	NA	NA	NA
Iron, dissolved	ug/L		300	**180**	NA	NA	NA	NA	NA	NA
Lead, dissolved	ug/L	15		< 0.2	NA	NA	NA	NA	NA	NA
Nickel, dissolved	ug/L	100		< 2.0	NA	NA	NA	NA	NA	NA
Selenium, dissolved	ug/L	50		< 1.0	NA	NA	NA	NA	NA	NA
Silver, dissolved	ug/L		100	< 0.25	NA	NA	NA	NA	NA	NA
Sodium, dissolved	ug/L	160000		**5.9**	NA	NA	NA	NA	NA	NA
Thallium, dissolved	ug/L	2		< 0.5	NA	NA	NA	NA	NA	NA
Vanadium, dissolved	ug/L			< 3.8	NA	NA	NA	NA	NA	NA
Zinc, dissolved	ug/L		5000	< 8.3	NA	NA	NA	NA	NA	NA
Laboratory Method EPA 7470										
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method SM18 2540 C										
Residues- Filterable (TDS)	mg/L		500	**70**	**31**	**100**	**270**	**230**	**60**	**36**

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; Q - sample held

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	**12**	**22**	**5.9**	**27**	**7.8**	**63**
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			**290**	**210**	**49 I**	**850**	**1200**	**3300**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01 UJ	< 0.01 UJ	**0.083 J**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**5.5**	**26**	**13**	**43**	**6.9**	**4.3 I**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**2.7 I**
Cobalt	ug/L			< 0.15	**0.22 I**	**0.22 I**	**0.5**	< 0.15	**0.83**
Copper	ug/L		1000	**1.2 I**	< 1.1	< 1.1	< 1.1	< 1.1	**3.8 I**
Iron	ug/L		300	**140**	**740**	**610**	**1100**	**95 I**	**290**
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	**0.39 I**	< 0.2	**0.21 I**
Nickel	ug/L	100		< 2	**2.7 I**	< 2	< 2	< 2	**5.2**
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**9600**	**13000**	**3700**	**17000**	**8000**	**89000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	< 3.8	**6 I**	**11**
Zinc	ug/L		5000	**9.6 I**	< 8.3	< 8.3	< 8.3	< 8.3	**45**
Laboratory Method EPA 6020									
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 EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**190**	**140**	**34**	**110**	**150**	**420**

Notes:

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

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

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

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

Parameter	Unit	MCL	SMCL	MWB2I	MWB3I	MWB11I(R)	MWB12I	MWB13I	MWB27I	MWB29I	MWB32I	MWB34I
Laboratory Method EPA 300.0												
Chloride	mg/L		250	**7.8**	**6.4**	**5.3**	**5.2**	**5.3**	**5.3**	**6.1**	**5.2**	**5.4**
Laboratory Method EPA 350.1												
Ammonia (N)	ug/L			**31 I**	< 26	**47 I**	**52**	**56**	**68**	**56**	**41 I**	**67**
Laboratory Method EPA 353.2 (Nitrate (N))												
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01 UJ	< 0.01	< 0.01	**0.016 I**	< 0.01	< 0.01 UJ	< 0.01 UJ
Laboratory Method EPA 6020												
Antimony	ug/L	6		--	--	--	--	--	--	< 2.3	--	--
Arsenic	ug/L	10		--	--	--	--	--	--	< 1.3	--	--
Barium	ug/L	2000		--	--	--	--	--	--	**43**	--	--
Beryllium	ug/L	4		--	--	--	--	--	--	< 0.25	--	--
Cadmium	ug/L	5		--	--	--	--	--	--	< 0.095	--	--
Chromium	ug/L	100		--	--	--	--	--	--	< 2.5	--	--
Cobalt	ug/L			--	--	--	--	--	--	< 0.15	--	--
Copper	ug/L		1000	--	--	--	--	--	--	< 1.1	--	--
Iron	ug/L		300	**410**	**820**	**390**	**370**	**410**	**490**	**510**	**150**	**430**
Lead	ug/L	15		--	--	--	--	--	--	**0.64 I**	--	--
Nickel	ug/L	100		--	--	--	--	--	--	< 2	--	--
Selenium	ug/L	50		--	--	--	--	--	--	< 1	--	--
Silver	ug/L		100	--	--	--	--	--	--	< 0.25	--	--
Sodium	ug/L	160000		**5100**	**4100**	**3500**	**3400**	**3500**	**3400**	**4300**	**3500**	**3600**
Thallium	ug/L	2		--	--	--	--	--	--	< 0.5	--	--
Vanadium	ug/L			--	--	--	--	--	--	< 3.8	--	--
Zinc	ug/L		5000	--	--	--	--	--	--	< 8.3	--	--
Laboratory Method SM18 2540 C												
Residues- Filterable (TDS)	mg/L		500	**36**	**25**	**46**	**42**	**34**	**68**	**39**	**33**	**34**

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; J - Approximate value.

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 1631					
Mercury	ug/L	0.012	0.012	**0.0043**	< 0.001
Laboratory Method EPA 353.2 (Nitrate (N))					
Nitrate (N)	mg/L	10		**0.047 I**	**0.055**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))					
Nitrate-Nitrite (N)	mg/L			**0.18**	**0.047 I**
Laboratory Method EPA 365.4					
Phosphorus- Total	mg/L			**0.042 I**	< 0.041
Laboratory Method EPA 6020					
Antimony	ug/L	14	4300	< 2.3	< 2.3
Arsenic	ug/L	10	50	< 1.3 I	**1.6 I**
Barium	ug/L	1000		**33**	**19**
Beryllium	ug/L	0.0077	0.13	< 0.25	< 0.25
Cadmium	ug/L	Calc	Calc	< 0.095	< 0.095
Chromium	ug/L	Calc	Calc	< 2.5	< 2.5
Cobalt	ug/L			**0.24 I**	**0.16 I**
Copper	ug/L	Calc	Calc	**2 I**	< 1.1 I
Iron	ug/L	1000	1000	**700**	**120**
Lead	ug/L	Calc	Calc	**0.91 I**	**1.1 I**
Nickel	ug/L	Calc	Calc	< 2	**2.2 I**
Selenium	ug/L	5	5	< 1	< 1
Silver	ug/L	0.07	0.07	< 0.25	< 0.25
Thallium	ug/L	1.7	6.3	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	**4.6 I**
Zinc	ug/L	Calc	Calc	**19 I**	< 8.3
Laboratory Method FDEP DEP-SOP					
Ammonia- Un-ionized (NH3)	ug/L	20	20	**1.7**	**25**
Laboratory Method SM18 10200 H					
Chlorophyll a	ug/L			**0.67**	**2.1**
Laboratory Method SM18 2340 B					
Hardness- Calculated	mg/L			**78**	**140**
Laboratory Method SM18 2540 C					
Residues- Filterable (TDS)	mg/L			**180**	**270**
Laboratory Method SM18 2540 D					
Residues- Nonfilterable (TSS)	mg/L			**13**	**7.5**
Laboratory Method SM18 5210 B					
BOD	mg/L			**10**	**23**
Laboratory Method SM18 5220 D					
Chemical Oxygen Demand	mg/L			**48**	**42**
Laboratory Method SM18 5310 C					
Carbon- Total Organic	mg/L			**21**	**18**
Laboratory Method SM18 9222 D (MF)					
Coliform Fecal	CFU/100 mL	800	800	**1350**	**158 B**
Laboratory Method Total Nitrogen					
Nitrogen- Total	mg/L			**0.87**	**2.7**

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			< 0.0053	< 0.0051
1,2-Dibromoethane	ug/L			< 0.0023	< 0.0023
Laboratory Method EPA 8260					
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L			< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L	0.17	10.8	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L			< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7	3.2	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane	ug/L			< 0.44	< 0.44
1,2-Dibromoethane	ug/L			< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L			< 0.21	< 0.21
1,2-Dichloroethane	ug/L			< 0.1	< 0.1
1,2-Dichloropropane	ug/L			< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L			< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1
2-Hexanone	ug/L			< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1
Acetone	ug/L			< 5	< 5
Acrylonitrile	ug/L			< 7.2	< 7.2
Benzene	ug/L	1.18	71.28	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14
Bromodichloromethane	ug/L	0.27	22	< 0.25	< 0.25
Bromoform	ug/L	4.3	360	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2
Carbon disulfide	ug/L			< 0.6	< 0.6
Carbon tetrachloride	ug/L	3	4.42	< 0.5	< 0.5
Chlorobenzene	ug/L			< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2
Chloroform	ug/L	5.67	470.8	< 0.14	< 0.14
Chloromethane	ug/L	5.67	470.8	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L			**0.25 I**	**0.18 I**
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11
Dibromochloromethane	ug/L	0.41	34	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2
Ethylbenzene	ug/L			< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1
Methylene chloride	ug/L	4.65	1580	< 1	< 1
Styrene	ug/L			< 0.11	< 0.11
Tetrachloroethene	ug/L	3	8.85	**0.21 I**	**0.35 I**
Toluene	ug/L			< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L			< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5
Trichloroethene	ug/L	3	80.7	**0.26 I**	**0.45 I**
Trichlorofluoromethane	ug/L			< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28
Vinyl chloride	ug/L			< 0.18	< 0.18
Xylenes, Total	ug/L			< 0.2	< 0.2

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)	4.47	0.7	84	25.3	85.22	Brown	None
MWB-3(S)	4.59	1.0	59	21.9	3.88	None	None
MWB-11(S)	4.03	0.0	174	23.2	2.52	None	None
MWB-12(S)	5.78	0.3	408	25.6	5.23	Slight Yellow Tint	None
MWB-13(S)	5.89	0.4	327	16.5	9.41	Yellow/Brown Tint	None
MWB-20(S)	4.26	0.0	74	26.0	6.11	Brown Tint	None
MWB-21(S)	5.16	0.0	43	25.1	3.92	None	None
MWB-22(S)	5.98	0.1	274	25.7	3.61	None	None
MWB-27(S)	5.15	0.0	205	24.9	3.69	None	None
MWB-29(S)	4.44	0.3	45	26.4	3.37	None	None
MWB-32(S)	5.15	0.4	175	23.9	6.39	Brown Tint	None
MWB-33(S)	5.67	0.1	268	24.2	1.78	Slight Yellow Tint	None
MWB-34(S)	6.10	0.0	702	25.0	1.31	Yellow Tint	None
Intermediate Wells							
MWB-2(I)	4.82	0.3	41	21.5	3.07	None	None
MWB-3(I)	4.83	0.0	40	21.1	2.08	None	None
MWB-11(IR)	4.86	0.0	36	24.4	3.97	None	None
MWB-12(I)	5.35	0.1	39	25.8	3.71	None	None
MWB-13(I)	5.25	0.2	36	25.8	3.71	None	None
MWB-27(I)	5.55	0.0	51	21.9	4.59	None	None
MWB-29(I)	5.17	0.2	41	23.5	3.30	None	None
MWB-32(I)	5.30	0.0	41	22.0	9.02	Slight White Tint	None
MWB-34(I)	5.38	0.0	43	25.7	3.44	None	None
Surface Water August 2014 Event							
SW-1	7.11	5.3	245	24.2	16.87	Yellow Tint	None
SW-3	7.14	5.3	436	29.1	14.12	Yellow Tint	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 August 2014.

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		
			78		140		Total Hardness [1]
			4.36		4.94		lnH [2]
			Result (total)	Standard	Result (total)	Standard	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	<0.095	0.2	<0.095	0.3	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	<2.5	70	<2.5	114	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	**2.0 I**	7.5	<1.1	12	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	**0.91 I**	2.3	**1.1 I**	4.9	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	<2	42	**2.2 I**	69	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	**19 I**	97	<8.3	159	

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 milligrams/L of CaCO3 in the Test America laboratory report

[2] - "ln H" means the natural logarithm of total hardness expressed as milligrams/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.

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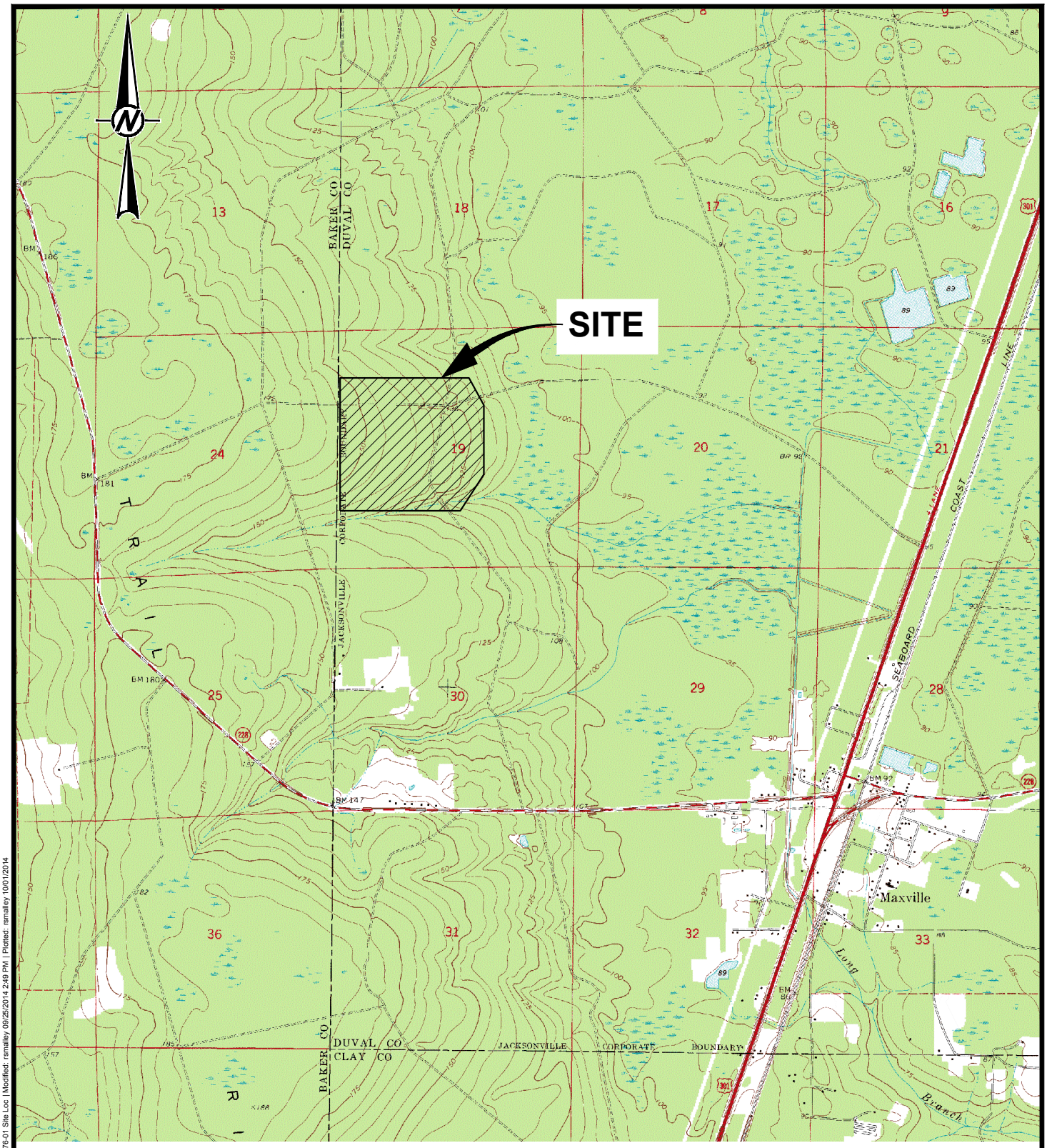
FIGURES



REFERENCES

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

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COA No. 1670

0 1500 3000 4500
SCALE FEET

REV	DATE	REVISION DESCRIPTION	DES	CADD	CHK	RVW

PROJECT

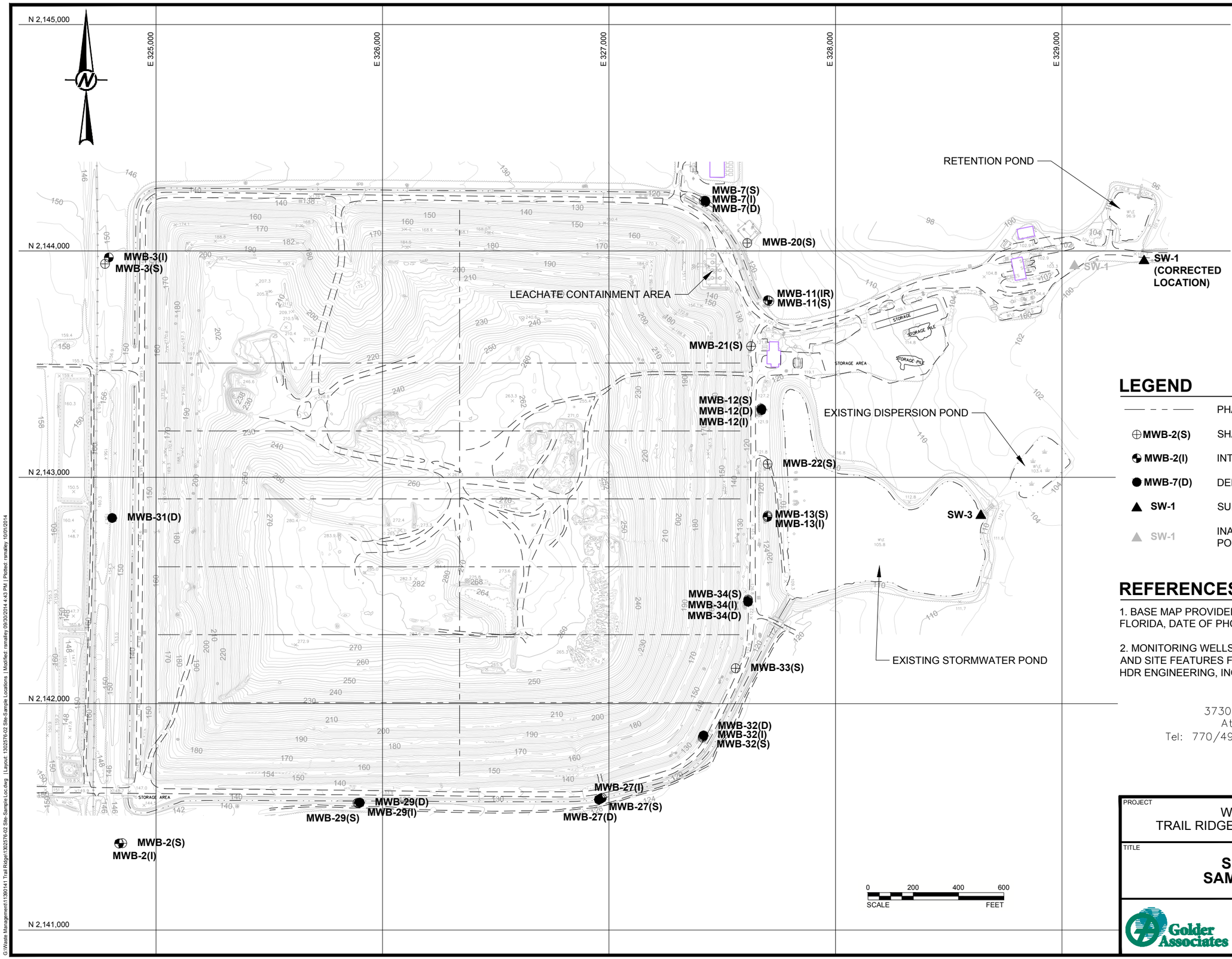
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE

SITE LOCATION

Golder Associates

PROJECT No.		1302576	FILE No.	1302576-01 Site Loc
DESIGN	-		SCALE	AS SHOWN
CADD	RJC	2014-09-25	FIGURE	
CHECK	SSG	2014-09-25		1
REVIEW	RWP	2014-09-25		



LEGEND

——— - - - ———	PHASE BOUNDARY
⊕ **MWB-2(S)**	SHALLOW MONITORING WELL
◒ **MWB-2(I)**	INTERMEDIATE MONITORING WELL
● **MWB-7(D)**	DEEP MONITORING WELL
▲ **SW-1**	SURFACE WATER MONITORING POINT
▲ SW-1	INACTIVE 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.

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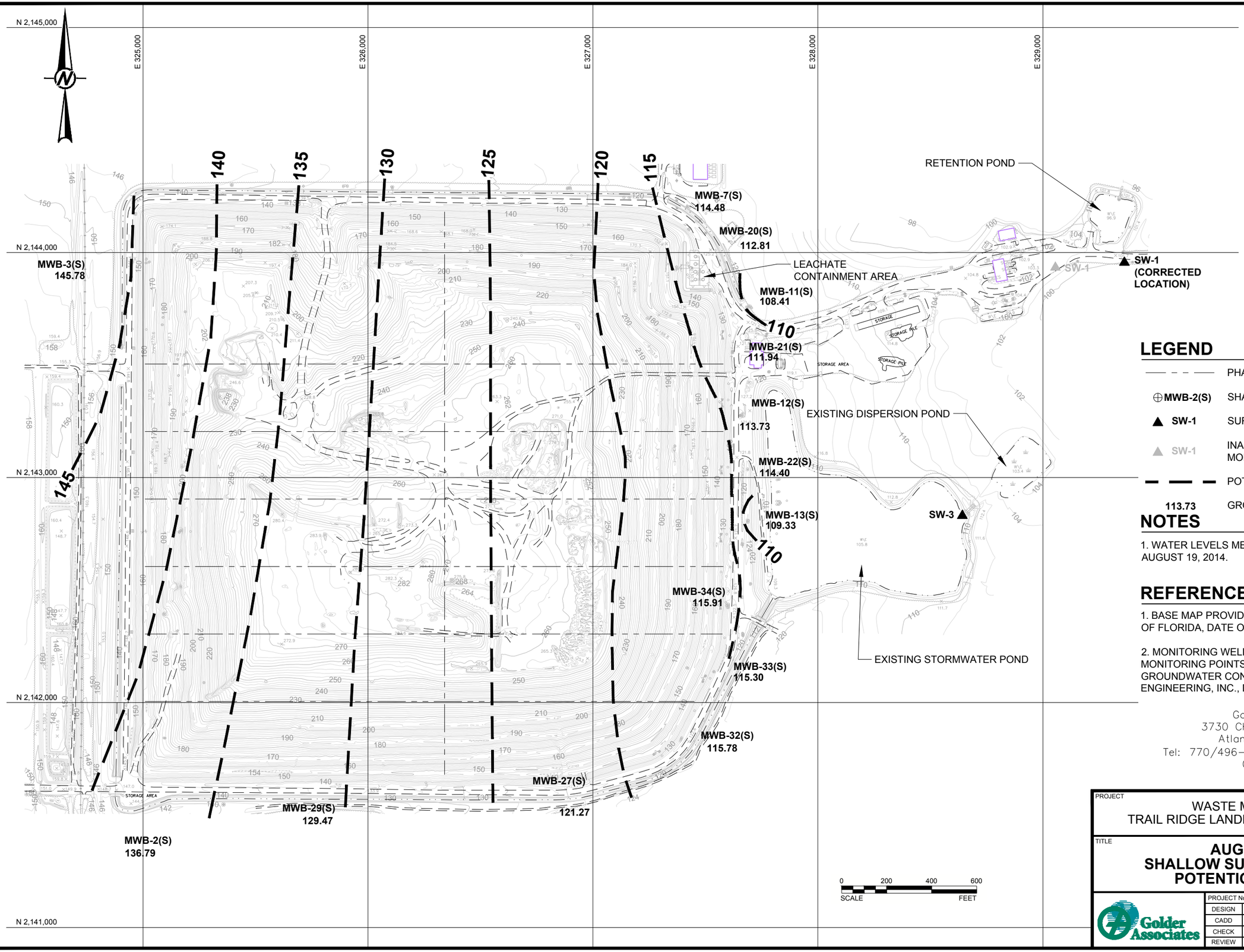
COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
SITE LAYOUT AND SAMPLING LOCATIONS

PROJECT No.		1302576	FILE No. 1302576-02 Site-Sample Loc
DESIGN	-		SCALE AS SHOWN
CADD	RJC	2014-09-25	FIGURE
CHECK	SSG	2014-09-25	2
REVIEW	RWP	2014-09-25	



LEGEND

—— - - ——	PHASE BOUNDARY
⊕ MWB-2(S)	SHALLOW MONITORING WELL
▲ SW-1	SURFACE WATER MONITORING POINT
▲ SW-1	INACTIVE SURFACE WATER MONITORING POINT
— — —	POTENTIOMETRIC CONTOUR (FT. MSL)
113.73	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON AUGUST 19, 2014.

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.

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COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
AUGUST 2014
SHALLOW SURFICIAL AQUIFER
POTENTIOMETRIC MAP

PROJECT No.		1302576	FILE No.	1302576-03 Shallow 2014-08
DESIGN	-	-	SCALE	AS SHOWN
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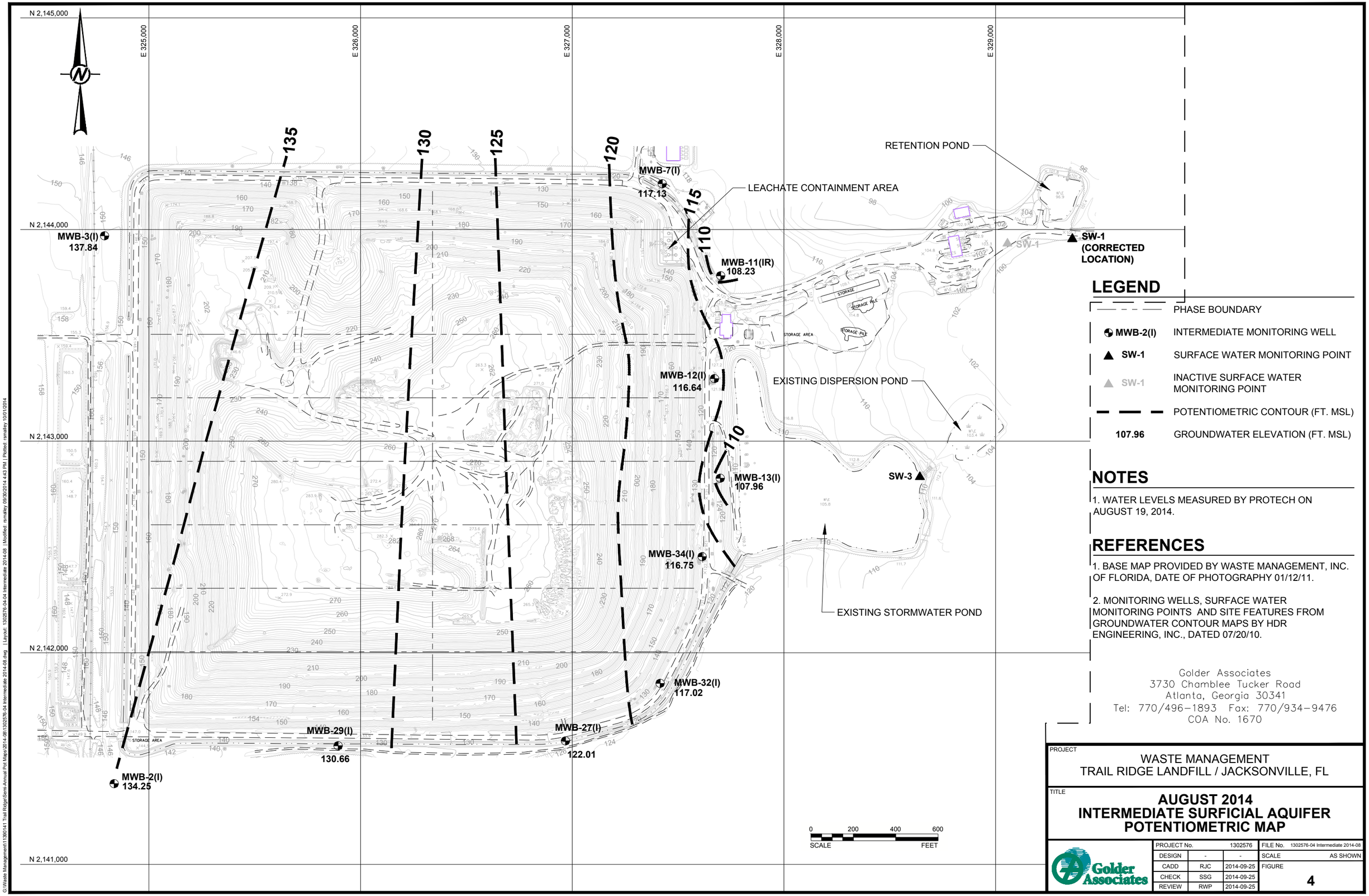
CHECK	SSG	2014-09-25		3
REVIEW	RWP	2014-09-25		



LEGEND

	PHASE BOUNDARY
MWB-2(I)	INTERMEDIATE MONITORING WELL
SW-1	SURFACE WATER MONITORING POINT
SW-1	INACTIVE SURFACE WATER MONITORING POINT
	POTENTIOMETRIC CONTOUR (FT. MSL)
107.96	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON AUGUST 19, 2014.

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.

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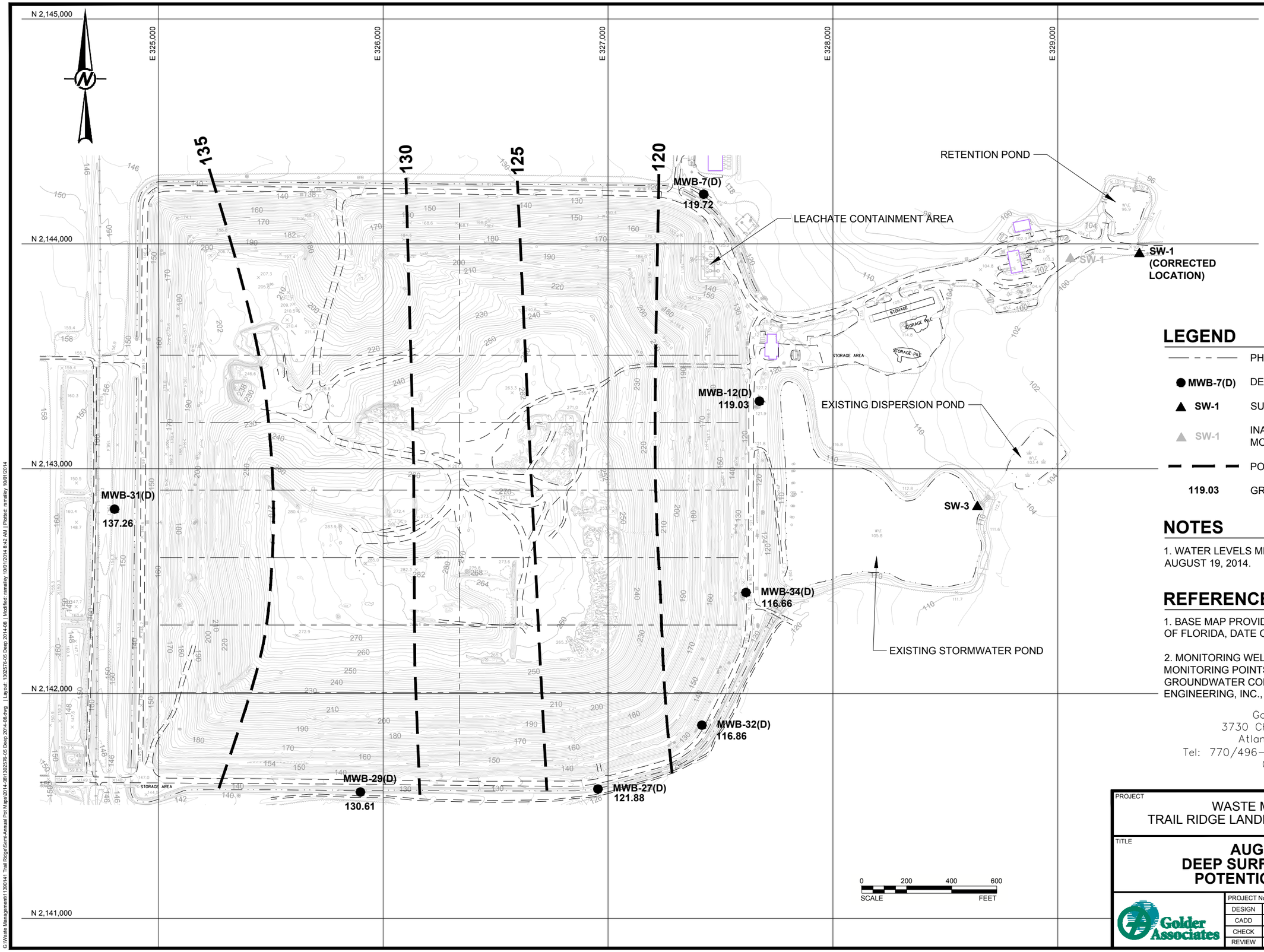
COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
AUGUST 2014
INTERMEDIATE SURFICIAL AQUIFER POTENTIOMETRIC MAP

PROJECT No.		1302576	FILE No.	1302576-04 Intermediate 2014-08	
DESIGN	-	-	SCALE	AS SHOWN	
CADD	RJC	2014-09-25	FIGURE		
CHECK	SSG	2014-09-25		4	
REVIEW	RWP	2014-09-25			



LEGEND

PHASE BOUNDARY	
MWB-7(D)	DEEP MONITORING WELL
SW-1	SURFACE WATER MONITORING POINT
SW-1	INACTIVE SURFACE WATER MONITORING POINT
POTENTIOMETRIC CONTOUR (FT. MSL)	
119.03	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON AUGUST 19, 2014.

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.

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PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
AUGUST 2014
DEEP SURFICIAL AQUIFER
POTENTIOMETRIC MAP

PROJECT No.		1302576	FILE No.	1302576-05 Deep 2014-08	
DESIGN	-	-	SCALE	AS SHOWN	
CADD	RJC	2014-09-25	FIGURE		
CHECK	SSG	2014-09-25		5	
REVIEW	RWP	2014-09-25			

APPENDIX A
INSTRUMENT CALIBRATION FIELD RECORDS
AND WELL DEVELOPMENT FORMS

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR

Date: 8-19-14

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	
MWB22S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12S	☒ 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.

Return this form to site manager and/or Compliance

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR

Date: 8-19-14

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations*
MWB3I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB11I(R)	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB34I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB32I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB32S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB33S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB34S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB11S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB20S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB35S	☒ 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 and/or Compliance

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR

Date: 8-19-14

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations*
MWB25	[X] OK ☐ Damaged	[X] OK ☐ Damaged	[X] OK ☐ Inadequate	[X] Yes ☐ No	DEDICATED BLADDER PUMP	☐ Clear [X] Turbid	[X] OK ☐ Inadequate	COMPLETED A DISSOLVED METALS SAMPLE
MWB21S	[X] OK ☐ Damaged	[X] OK ☐ Damaged	[X] OK ☐ Inadequate	[X] Yes ☐ No	"	[X] Clear ☐ Turbid	[X] 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	
	☐ 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 and/or Com...

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

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 PINE ENVIRONMENTAL EXP: JUNE 2015 7.01 (std)

Standard B PINE ENVIRONMENTAL EXP: DEC 2014 4.01 (std)

Standard C PINE ENVIRONMENTAL EXP: JULY 2015 10.01 (std)

DATE (y/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/08/19	1330	A	7.01	AUTO CAL	-	YES	INIT	DKA
"	"	B	4.01	|	-	YES	INIT	DKA
"	"	C	10.01	|	-	YES	INIT	DKA
14/08/20	0210	A	7.01	AUTOCAL	-	YES	CONT	DKA
|	|	B	4.01	"	-	YES	CONT	DKA
		C	10.01	"	-	YES	CONT	DKA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 108086

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 EXP: 10-2014

Standard B 10.0 NTU HF SCIENTIFIC EXP: 10-2014

Standard C 0.02 NTU HF SCIENTIFIC EXP: 10-2014

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/08/19	1330	A	1000	AUTO CAL	-	YES	INIT	DEA
"	"	B	10.0	"	-	YES	INIT	DEA
"	"	C	0.02	"	-	YES	INIT	DEA
14/08/20	0710	A	1000	AUTO CAL	-	YES	CONT	DEA
"	"	B	10.0	"	-	YES	CONT	DEA
"	"	C	0.02	"	-	YES	CONT	DEA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

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 84 uS/cm PINE ENVIRONMENTAL EXP: 8-2014

Standard B 1413 uS/cm PINE ENVIRONMENTAL EXP: 8-2014

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/08/19	1330	A	84	AUTOCAL	-	YES	INIT	DSA
"	"	B	1413	"	-	YES	INIT	DSA
14/08/20	0710	A	84	AUTOCAL	-	YES	CONT	DSA
"	"	B	1413	"	-	YES	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

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 (yy/mm/dd)	TIME (hr/min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/08/19	1330	A	100% SAT	100%	-	Yes	INIT	DSA
14/08/20	0710	A	100% SAT	100 %	-	Yes	CONT	DSA

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

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 Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-48932-1
Client Project/Site: Trail Ridge Landfill

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

Attn: Shannon George

Authorized for release by:
9/11/2014 3:01:35 PM

Amy Atkins, Project Manager II
(813)885-7427
amy.atkins@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

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.

GC Semi VOA

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.

HPLC/IC

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

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.
J	Estimated value; value may not be accurate.

General Chemistry

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

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)

Job ID: 640-48932-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-48932-1

Receipt
The samples were received on 8/21/2014 8:15 AM and 8/22/2014 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.6º C, 2.8º C, 2.8º C and 3.0º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 346586 recovered outside control limits for the following analytes: Acrylonitrile. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

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

Metals
Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 228490 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and duplicate (LCS/LCSD) recoveries was within acceptance limits.

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

General Chemistry
Method 353.2: The following sample(s) was received outside of holding time: MWB21S (640-48951-14), MWB2I (640-48951-1), MWB2S (640-48951-13).

Method 353.2: The following sample(s) was received with minimal time remaining. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MWB3I (640-48951-2), MWB3S (640-48951-12).

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

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

Detection Summary

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-1 — Lab Sample ID: 640-48932-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.25	I	1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.21	I	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.26	I	1.0	0.13	ug/L	1		8260B	Total/NA
Mercury	0.0043		0.0025	0.0010	ug/L	1		1631E	Total/NA
Arsenic	1.3	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	33		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.24	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.0	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	700		100	33	ug/L	1		6020	Total Recoverable
Lead	0.91	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Zinc	19	I	20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	78		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	13		5.0	5.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	180		10	10	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.047	I	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.18		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.042	I	0.10	0.041	mg/L	1		365.4	Total/NA
Biochemical Oxygen Demand	10		2.0	2.0	mg/L	1		5210B-2011	Total/NA
Total Organic Carbon	21		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	48		10	5.0	mg/L	1		SM 5220D	Total/NA
Nitrogen, Total	0.87		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.0017		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	245				umhos/cm	1		Field Sampling	Total/NA
Turbidity	16.37				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 640-48932-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.18	I	1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.35	I	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.45	I	1.0	0.13	ug/L	1		8260B	Total/NA
Arsenic	1.6	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	19		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.16	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.1	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	120		100	33	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-3 (Continued) — Lab Sample ID: 640-48932-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.1	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.2	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Vanadium	4.6	I	10	3.8	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	140		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	7.5		5.0	5.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	270		10	10	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.055		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.047	I	0.050	0.010	mg/L	1		353.2	Total/NA
Biochemical Oxygen Demand	23		2.0	2.0	mg/L	1		5210B-2011	Total/NA
Total Organic Carbon	18		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	42		10	5.0	mg/L	1		SM 5220D	Total/NA
Nitrogen, Total	2.7		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.025		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	7.14				SU	1		Field Sampling	Total/NA
Field Temperature	29.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	436				umhos/cm	1		Field Sampling	Total/NA
Turbidity	14.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 48932 — Lab Sample ID: 640-48932-3

No Detections.

Client Sample ID: MWB29S — Lab Sample ID: 640-48933-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.9		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	13		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.22	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	610		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	34		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.049	I	0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.44				SU	1		Field Sampling	Total/NA
Field Temperature	26.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	45				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.37				NTU	1		Field Sampling	Total/NA
Water Level	129.47				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB27S — Lab Sample ID: 640-48933-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB27S (Continued)

Lab Sample ID: 640-48933-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	26		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.22	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	740		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.7	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	13		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	140		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.21		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.15				SU	1		Field Sampling	Total/NA
Field Temperature	24.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	205				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.69				NTU	1		Field Sampling	Total/NA
Water Level	121.27				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB13S

Lab Sample ID: 640-48933-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	I	25	5.0	ug/L	1		8260B	Total/NA
Chloride	25		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	5.0		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.20	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Copper	11		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	600		100	33	ug/L	1		6020	Total Recoverable
Lead	0.36	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.8	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	3.0		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	23		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	31		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	13	I	20	8.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	230		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.71		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.42		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Yellow-Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.89				SU	1		Field Sampling	Total/NA
Field Temperature	16.5				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB13S (Continued) — Lab Sample ID: 640-48933-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	327				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.41				NTU	1		Field Sampling	Total/NA
Water Level	109.34				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB22S — Lab Sample ID: 640-48933-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	5.5		5.0	1.3	ug/L	1		6020	Total Recoverable
Copper	1.2	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	140		100	33	ug/L	1		6020	Total Recoverable
Sodium	9.6		0.50	0.25	mg/L	1		6020	Total Recoverable
Zinc	9.6	I	20	8.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	190		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.29		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.98				SU	1		Field Sampling	Total/NA
Field Temperature	25.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.61				NTU	1		Field Sampling	Total/NA
Water Level	114.4				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB12S — Lab Sample ID: 640-48933-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	60		1.0	0.50	mg/L	2		300.0	Total/NA
Barium	2.3	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	79	I	100	33	ug/L	1		6020	Total Recoverable
Nickel	3.9	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	2.7		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	38		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	48		10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	270		10	10	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.10		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Sl Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.78				SU	1		Field Sampling	Total/NA
Field Temperature	25.6				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB12S (Continued) — Lab Sample ID: 640-48933-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	408				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.23				NTU	1		Field Sampling	Total/NA
Water Level	113.73				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB12I — Lab Sample ID: 640-48933-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	370		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	42		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.052		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.35				SU	1		Field Sampling	Total/NA
Field Temperature	25.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	39				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.71				NTU	1		Field Sampling	Total/NA
Water Level	116.64				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB13I — Lab Sample ID: 640-48933-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.3		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	410		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	34		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.056		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.25				SU	1		Field Sampling	Total/NA
Field Temperature	25.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	36				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.71				NTU	1		Field Sampling	Total/NA
Water Level	107.96				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB27I — Lab Sample ID: 640-48933-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.3		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	490		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB27I (Continued) — Lab Sample ID: 640-48933-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	68		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.068		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.016	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.55				SU	1		Field Sampling	Total/NA
Field Temperature	21.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	51				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.59				NTU	1		Field Sampling	Total/NA
Water Level	122.01				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB29I — Lab Sample ID: 640-48933-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.1		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	510		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	39		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.056		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.17				SU	1		Field Sampling	Total/NA
Field Temperature	23.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Water Level	130.66				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 48933 — Lab Sample ID: 640-48933-10

No Detections.

Client Sample ID: MWB2I — Lab Sample ID: 640-48951-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	410		100	33	ug/L	1		6020	Total Recoverable
Sodium	5.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	36		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.031	I	0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA
Field Temperature	21.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.07				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB2I (Continued) — Lab Sample ID: 640-48951-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Water Level	134.23				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB3I — Lab Sample ID: 640-48951-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.4		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	820		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	25		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.83				SU	1		Field Sampling	Total/NA
Field Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	40				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.08				NTU	1		Field Sampling	Total/NA
Water Level	137.83				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB11I (R) — Lab Sample ID: 640-48951-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.3		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	390		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	46		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.047	I	0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.86				SU	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	36				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.97				NTU	1		Field Sampling	Total/NA
Water Level	108.22				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB34I — Lab Sample ID: 640-48951-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	430		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.6		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	34		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.067		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.38				SU	1		Field Sampling	Total/NA
Field Temperature	25.7				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB34I (Continued) — Lab Sample ID: 640-48951-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	43				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.44				NTU	1		Field Sampling	Total/NA
Water Level	116.75				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB32I — Lab Sample ID: 640-48951-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		0.50	0.25	mg/L	1		300.0	Total/NA
Iron	150		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	33		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.041	I	0.050	0.026	mg/L	1		350.1	Total/NA
Color	Sl Whitish Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.3				SU	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.02				NTU	1		Field Sampling	Total/NA
Water Level	117.01				ft	1		Field Sampling	Total/NA

Client Sample ID: FIELD BLANK 01 48951 — Lab Sample ID: 640-48951-6

No Detections.

Client Sample ID: MWB32S — Lab Sample ID: 640-48951-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	43		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.50		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1100		100	33	ug/L	1		6020	Total Recoverable
Lead	0.39	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	17		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.85		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.15				SU	1		Field Sampling	Total/NA
Field Temperature	23.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	175				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.39				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB32S (Continued) — Lab Sample ID: 640-48951-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Water Level	115.76				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB33S — Lab Sample ID: 640-48951-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	6.9		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	95	I	100	33	ug/L	1		6020	Total Recoverable
Sodium	8.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	6.0	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	150		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	1.2		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Sl Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.67				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	268				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.78				NTU	1		Field Sampling	Total/NA
Water Level	115.29				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB34S — Lab Sample ID: 640-48951-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	63		1.0	0.50	mg/L	2		300.0	Total/NA
Barium	4.3	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	2.7	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.83		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	3.8	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	290		100	33	ug/L	1		6020	Total Recoverable
Lead	0.21	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	5.2		5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	89		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	11		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	45		20	8.3	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	420		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	3.3		0.10	0.052	mg/L	2		350.1	Total/NA
Nitrate as N	0.083	J	0.050	0.010	mg/L	1		353.2	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB34S (Continued) — Lab Sample ID: 640-48951-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.1				SU	1		Field Sampling	Total/NA
Field Temperature	25.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	702				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.31				NTU	1		Field Sampling	Total/NA
Water Level	115.9				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB11S — Lab Sample ID: 640-48951-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	69		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.56		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1700		100	33	ug/L	1		6020	Total Recoverable
Sodium	12		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	7.5	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	100		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.12		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.03				SU	1		Field Sampling	Total/NA
Field Temperature	23.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	174				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.52				NTU	1		Field Sampling	Total/NA
Water Level	108.42				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB20S — Lab Sample ID: 640-48951-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	11		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.15	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.3	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	180		100	33	ug/L	1		6020	Total Recoverable
Lead	0.48	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	60		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.27		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.26				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB20S (Continued) — Lab Sample ID: 640-48951-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	26.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	74				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.11				NTU	1		Field Sampling	Total/NA
Water Level	112.81				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB3S — Lab Sample ID: 640-48951-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	15		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	3500		100	33	ug/L	1		6020	Total Recoverable
Lead	0.25	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	5.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	31		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.12		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.59				SU	1		Field Sampling	Total/NA
Field Temperature	21.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	59				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.88				NTU	1		Field Sampling	Total/NA
Water Level	145.77				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB2S — Lab Sample ID: 640-48951-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	3.1		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	80		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.79		0.50	0.25	ug/L	1		6020	Total Recoverable
Chromium	20		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	3.3		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	7.2		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	10000		100	33	ug/L	1		6020	Total Recoverable
Lead	16		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	8.6		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.5	I	2.5	1.0	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB2S (Continued) — Lab Sample ID: 640-48951-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	7.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	26		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	16	I	20	8.3	ug/L	1		6020	Total Recoverable
Dissolved Barium	11		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Cobalt	0.21	I	0.50	0.15	ug/L	1		6020	Dissolved
Dissolved Iron	180		100	33	ug/L	1		6020	Dissolved
Dissolved Sodium	5.9		0.50	0.25	mg/L	1		6020	Dissolved
Total Dissolved Solids	70		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.030	I Q	0.050	0.010	mg/L	1		353.2	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	4.47				SU	1		Field Sampling	Total/NA
Field Temperature	25.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	84				umhos/cm	1		Field Sampling	Total/NA
Turbidity	85.22				NTU	1		Field Sampling	Total/NA
Water Level	136.77				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB21S — Lab Sample ID: 640-48951-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
DBCP	0.0079	I	0.020	0.0050	ug/L	1		8011	Total/NA
Chloride	6.0		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	16		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	590		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	36		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.15		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.16				SU	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	43				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.92				NTU	1		Field Sampling	Total/NA
Water Level	111.93				ft	1		Field Sampling	Total/NA

Client Sample ID: TRIP02 BLANK 48951 — Lab Sample ID: 640-48951-15

No Detections.

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-1
Date Collected: 08/20/14 07:40
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/30/14 18:36	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/30/14 18:36	1
Benzene	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/30/14 18:36	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/30/14 18:36	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/30/14 18:36	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/30/14 18:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/30/14 18:36	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/30/14 18:36	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/30/14 18:36	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/30/14 18:36	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/30/14 18:36	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/30/14 18:36	1
cis-1,2-Dichloroethene	**0.25**	**I**	1.0	0.15	ug/L			08/30/14 18:36	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/30/14 18:36	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/30/14 18:36	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/30/14 18:36	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/30/14 18:36	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/30/14 18:36	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/30/14 18:36	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/30/14 18:36	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/30/14 18:36	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/30/14 18:36	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/30/14 18:36	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/30/14 18:36	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/30/14 18:36	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/30/14 18:36	1
Styrene	0.11	U	1.0	0.11	ug/L			08/30/14 18:36	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/30/14 18:36	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/30/14 18:36	1
Tetrachloroethene	**0.21**	**I**	1.0	0.15	ug/L			08/30/14 18:36	1
Toluene	0.33	U	1.0	0.33	ug/L			08/30/14 18:36	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/30/14 18:36	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/30/14 18:36	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/30/14 18:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/30/14 18:36	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/30/14 18:36	1
Trichloroethene	**0.26**	**I**	1.0	0.13	ug/L			08/30/14 18:36	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/30/14 18:36	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/30/14 18:36	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/30/14 18:36	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/30/14 18:36	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/30/14 18:36	1

Client Sample ID: SW-1
Date Collected: 08/20/14 07:40
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*08/30/14 18:36*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		08/21/14 14:43	08/22/14 06:50	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/21/14 14:43	08/22/14 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*115*		*60 - 144*	*08/21/14 14:43*	*08/22/14 06:50*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0043**		0.0025	0.0010	ug/L		08/22/14 15:25	09/02/14 11:39	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 13:12	08/29/14 06:18	1
Arsenic	**1.3**	**I**	2.5	1.3	ug/L		08/25/14 13:12	08/29/14 06:18	1
Barium	**33**		5.0	1.3	ug/L		08/25/14 13:12	08/29/14 06:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 13:12	08/29/14 06:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 13:12	08/29/14 06:18	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 13:12	08/29/14 06:18	1
Cobalt	**0.24**	**I**	0.50	0.15	ug/L		08/25/14 13:12	08/29/14 06:18	1
Copper	**2.0**	**I**	5.0	1.1	ug/L		08/25/14 13:12	08/29/14 06:18	1
Iron	**700**		100	33	ug/L		08/25/14 13:12	08/29/14 06:18	1
Lead	**0.91**	**I**	1.5	0.20	ug/L		08/25/14 13:12	08/29/14 06:18	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 13:12	08/29/14 06:18	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 13:12	08/29/14 06:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 13:12	08/29/14 06:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 13:12	08/29/14 06:18	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 13:12	08/29/14 06:18	1
Zinc	**19**	**I**	20	8.3	ug/L		08/25/14 13:12	08/29/14 06:18	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	**78**		3.3	3.3	mg/L			08/29/14 06:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**13**		5.0	5.0	mg/L			08/27/14 14:36	1
Total Dissolved Solids	**180**		10	10	mg/L			08/24/14 14:00	1
Nitrate as N	**0.047**	**I**	0.050	0.010	mg/L			08/21/14 11:42	1
Nitrate Nitrite as N	**0.18**		0.050	0.010	mg/L			08/22/14 17:30	1
Phosphorus	**0.042**	**I**	0.10	0.041	mg/L		09/02/14 16:09	09/03/14 13:02	1
Biochemical Oxygen Demand	**10**		2.0	2.0	mg/L			08/21/14 13:12	1
Total Organic Carbon	**21**		1.0	0.50	mg/L			08/30/14 00:17	1
Chemical Oxygen Demand	**48**		10	5.0	mg/L			08/27/14 12:32	1
Nitrogen, Total	**0.87**		0.25	0.25	mg/L			08/29/14 16:04	1
Unionized Ammonia	**0.0017**		0.00028	0.00028	mg/L			09/04/14 07:19	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-1
Date Collected: 08/20/14 07:40
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-1
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			08/20/14 07:40	1
Field pH	7.11				SU			08/20/14 07:40	1
Field Temperature	24.2				Degrees C			08/20/14 07:40	1
Oxygen, Dissolved	5.3				mg/L			08/20/14 07:40	1
Sheen	None				NONE			08/20/14 07:40	1
Specific Conductance	245				umhos/cm			08/20/14 07:40	1
Turbidity	16.37				NTU			08/20/14 07:40	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-3
Date Collected: 08/20/14 08:15
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/30/14 19:02	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/30/14 19:02	1
Benzene	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/30/14 19:02	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/30/14 19:02	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/30/14 19:02	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/30/14 19:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/30/14 19:02	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/30/14 19:02	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/30/14 19:02	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/30/14 19:02	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/30/14 19:02	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/30/14 19:02	1
cis-1,2-Dichloroethene	**0.18**	**I**	1.0	0.15	ug/L			08/30/14 19:02	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/30/14 19:02	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/30/14 19:02	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/30/14 19:02	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/30/14 19:02	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/30/14 19:02	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/30/14 19:02	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/30/14 19:02	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/30/14 19:02	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/30/14 19:02	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/30/14 19:02	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/30/14 19:02	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/30/14 19:02	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/30/14 19:02	1
Styrene	0.11	U	1.0	0.11	ug/L			08/30/14 19:02	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/30/14 19:02	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/30/14 19:02	1
Tetrachloroethene	**0.35**	**I**	1.0	0.15	ug/L			08/30/14 19:02	1
Toluene	0.33	U	1.0	0.33	ug/L			08/30/14 19:02	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/30/14 19:02	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/30/14 19:02	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/30/14 19:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/30/14 19:02	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/30/14 19:02	1
Trichloroethene	**0.45**	**I**	1.0	0.13	ug/L			08/30/14 19:02	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/30/14 19:02	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/30/14 19:02	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/30/14 19:02	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/30/14 19:02	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/30/14 19:02	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-3
Date Collected: 08/20/14 08:15
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*08/30/14 19:02*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.021	0.0051	ug/L		08/21/14 14:43	08/22/14 07:02	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/21/14 14:43	08/22/14 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*111*		*60 - 144*	*08/21/14 14:43*	*08/22/14 07:02*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0010	U	0.0025	0.0010	ug/L		08/22/14 15:25	09/02/14 11:47	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 13:12	08/29/14 06:40	1
Arsenic	**1.6**	**I**	2.5	1.3	ug/L		08/25/14 13:12	08/29/14 06:40	1
Barium	**19**		5.0	1.3	ug/L		08/25/14 13:12	08/29/14 06:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 13:12	08/29/14 06:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 13:12	08/29/14 06:40	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 13:12	08/29/14 06:40	1
Cobalt	**0.16**	**I**	0.50	0.15	ug/L		08/25/14 13:12	08/29/14 06:40	1
Copper	**1.1**	**I**	5.0	1.1	ug/L		08/25/14 13:12	08/29/14 06:40	1
Iron	**120**		100	33	ug/L		08/25/14 13:12	08/29/14 06:40	1
Lead	**1.1**	**I**	1.5	0.20	ug/L		08/25/14 13:12	08/29/14 06:40	1
Nickel	**2.2**	**I**	5.0	2.0	ug/L		08/25/14 13:12	08/29/14 06:40	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 13:12	08/29/14 06:40	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 13:12	08/29/14 06:40	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 13:12	08/29/14 06:40	1
Vanadium	**4.6**	**I**	10	3.8	ug/L		08/25/14 13:12	08/29/14 06:40	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 13:12	08/29/14 06:40	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	**140**		3.3	3.3	mg/L			08/29/14 06:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**7.5**		5.0	5.0	mg/L			08/27/14 14:19	1
Total Dissolved Solids	**270**		10	10	mg/L			08/24/14 14:00	1
Nitrate as N	**0.055**		0.050	0.010	mg/L			08/21/14 11:45	1
Nitrate Nitrite as N	**0.047**	**I**	0.050	0.010	mg/L			08/23/14 11:52	1
Phosphorus	0.041	U	0.10	0.041	mg/L		09/02/14 16:09	09/03/14 13:05	1
Biochemical Oxygen Demand	**23**		2.0	2.0	mg/L			08/21/14 13:12	1
Total Organic Carbon	**18**		1.0	0.50	mg/L			08/30/14 00:59	1
Chemical Oxygen Demand	**42**		10	5.0	mg/L			08/27/14 12:32	1
Nitrogen, Total	**2.7**		0.25	0.25	mg/L			08/29/14 16:04	1
Unionized Ammonia	**0.025**		0.00028	0.00028	mg/L			09/04/14 07:19	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: SW-3
Date Collected: 08/20/14 08:15
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-2
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			08/20/14 08:15	1
Field pH	7.14				SU			08/20/14 08:15	1
Field Temperature	29.1				Degrees C			08/20/14 08:15	1
Oxygen, Dissolved	5.3				mg/L			08/20/14 08:15	1
Sheen	None				NONE			08/20/14 08:15	1
Specific Conductance	436				umhos/cm			08/20/14 08:15	1
Turbidity	14.12				NTU			08/20/14 08:15	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: Trip Blank 48932
Date Collected: 08/20/14 00:00
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/30/14 13:01	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/30/14 13:01	1
Benzene	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/30/14 13:01	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/30/14 13:01	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/30/14 13:01	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/30/14 13:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/30/14 13:01	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/30/14 13:01	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/30/14 13:01	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/30/14 13:01	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/30/14 13:01	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/30/14 13:01	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/30/14 13:01	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/30/14 13:01	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/30/14 13:01	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/30/14 13:01	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/30/14 13:01	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/30/14 13:01	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/30/14 13:01	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/30/14 13:01	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/30/14 13:01	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/30/14 13:01	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/30/14 13:01	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/30/14 13:01	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/30/14 13:01	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/30/14 13:01	1
Styrene	0.11	U	1.0	0.11	ug/L			08/30/14 13:01	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/30/14 13:01	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/30/14 13:01	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/30/14 13:01	1
Toluene	0.33	U	1.0	0.33	ug/L			08/30/14 13:01	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/30/14 13:01	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/30/14 13:01	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/30/14 13:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/30/14 13:01	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/30/14 13:01	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/30/14 13:01	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/30/14 13:01	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/30/14 13:01	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/30/14 13:01	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/30/14 13:01	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/30/14 13:01	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: Trip Blank 48932
Date Collected: 08/20/14 00:00
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48932-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		08/30/14 13:01	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB29S
Date Collected: 08/19/14 18:39
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 16:28	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 16:28	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 16:28	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 16:28	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 16:28	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 16:28	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 16:28	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 16:28	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 16:28	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 16:28	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 16:28	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 16:28	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 16:28	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 16:28	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 16:28	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 16:28	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 16:28	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 16:28	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 16:28	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 16:28	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 16:28	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 16:28	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 16:28	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 16:28	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 16:28	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 16:28	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 16:28	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 16:28	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 16:28	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 16:28	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 16:28	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 16:28	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 16:28	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 16:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 16:28	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 16:28	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 16:28	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:28	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 16:28	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 16:28	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 16:28	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 16:28	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB29S
Date Collected: 08/19/14 18:39
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*		*08/28/14 16:28*	*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		08/27/14 09:53	08/27/14 17:51	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*110*		*60 - 144*	*08/27/14 09:53*	*08/27/14 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.9**		0.50	0.25	mg/L			09/03/14 18:15	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 19:22	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 19:22	1
Barium	**13**		5.0	1.3	ug/L		08/22/14 09:59	08/25/14 19:22	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 19:22	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 19:22	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 19:22	1
Cobalt	**0.22**	**I**	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 19:22	1
Copper	1.1	U	5.0	1.1	ug/L		08/22/14 09:59	08/25/14 19:22	1
Iron	**610**		100	33	ug/L		08/22/14 09:59	08/25/14 19:22	1
Lead	0.20	U	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 19:22	1
Nickel	2.0	U	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 19:22	1
Selenium	1.0	U	2.5	1.0	ug/L		08/22/14 09:59	08/25/14 19:22	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 19:22	1
Sodium	**3.7**		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:22	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 19:22	1
Vanadium	3.8	U	10	3.8	ug/L		08/22/14 09:59	08/25/14 19:22	1
Zinc	8.3	U	20	8.3	ug/L		08/22/14 09:59	08/25/14 19:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**34**		5.0	5.0	mg/L			08/21/14 15:06	1
Ammonia (as N)	**0.049**	**I**	0.050	0.026	mg/L			08/25/14 16:50	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/19/14 18:38	1
Field pH	**4.44**				SU			08/19/14 18:38	1
Field Temperature	**26.4**				Degrees C			08/19/14 18:38	1
Oxygen, Dissolved	**0.3**				mg/L			08/19/14 18:38	1
Sheen	**None**				NONE			08/19/14 18:38	1
Specific Conductance	**45**				umhos/cm			08/19/14 18:38	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB29S
Date Collected: 08/19/14 18:39
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-1
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.37				NTU			08/19/14 18:38	1
Water Level	129.47				ft			08/19/14 18:38	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB27S
Date Collected: 08/19/14 17:29
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 16:54	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 16:54	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 16:54	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 16:54	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 16:54	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 16:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 16:54	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 16:54	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 16:54	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 16:54	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 16:54	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 16:54	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 16:54	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 16:54	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 16:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 16:54	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 16:54	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 16:54	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 16:54	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 16:54	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 16:54	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 16:54	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 16:54	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 16:54	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 16:54	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 16:54	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 16:54	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 16:54	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 16:54	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 16:54	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 16:54	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 16:54	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 16:54	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 16:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 16:54	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 16:54	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 16:54	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 16:54	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 16:54	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 16:54	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 16:54	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 16:54	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB27S
Date Collected: 08/19/14 17:29
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 130*		*08/28/14 16:54*	*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		08/27/14 09:53	08/27/14 18:03	1
EDB	0.0024	U	0.022	0.0024	ug/L		08/27/14 09:53	08/27/14 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*114*		*60 - 144*	*08/27/14 09:53*	*08/27/14 18:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		0.50	0.25	mg/L			09/03/14 18:29	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 19:29	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 19:29	1
Barium	**26**		5.0	1.3	ug/L		08/22/14 09:59	08/25/14 19:29	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 19:29	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 19:29	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 19:29	1
Cobalt	**0.22**	**I**	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 19:29	1
Copper	1.1	U	5.0	1.1	ug/L		08/22/14 09:59	08/25/14 19:29	1
Iron	**740**		100	33	ug/L		08/22/14 09:59	08/25/14 19:29	1
Lead	0.20	U	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 19:29	1
Nickel	**2.7**	**I**	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 19:29	1
Selenium	1.0	U	2.5	1.0	ug/L		08/22/14 09:59	08/25/14 19:29	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 19:29	1
Sodium	**13**		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:29	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 19:29	1
Vanadium	3.8	U	10	3.8	ug/L		08/22/14 09:59	08/25/14 19:29	1
Zinc	8.3	U	20	8.3	ug/L		08/22/14 09:59	08/25/14 19:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**140**		10	10	mg/L			08/21/14 15:06	1
Ammonia (as N)	**0.21**		0.050	0.026	mg/L			08/25/14 16:50	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/19/14 17:28	1
Field pH	**5.15**				SU			08/19/14 17:28	1
Field Temperature	**24.9**				Degrees C			08/19/14 17:28	1
Oxygen, Dissolved	**0.0**				mg/L			08/19/14 17:28	1
Sheen	**None**				NONE			08/19/14 17:28	1
Specific Conductance	**205**				umhos/cm			08/19/14 17:28	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB27S
Date Collected: 08/19/14 17:29
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-2
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.69				NTU			08/19/14 17:28	1
Water Level	121.27				ft			08/19/14 17:28	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB13S
Date Collected: 08/19/14 16:19
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.1	I	25	5.0	ug/L			08/28/14 17:19	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 17:19	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 17:19	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 17:19	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 17:19	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 17:19	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 17:19	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 17:19	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 17:19	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 17:19	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 17:19	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 17:19	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 17:19	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 17:19	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 17:19	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 17:19	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 17:19	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 17:19	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 17:19	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 17:19	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 17:19	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 17:19	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 17:19	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 17:19	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 17:19	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 17:19	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 17:19	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 17:19	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 17:19	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 17:19	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 17:19	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 17:19	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 17:19	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 17:19	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 17:19	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 17:19	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 17:19	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:19	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 17:19	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 17:19	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 17:19	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 17:19	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB13S
Date Collected: 08/19/14 16:19
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/28/14 17:19*	*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		08/27/14 09:53	08/27/14 18:15	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*113*		*60 - 144*	*08/27/14 09:53*	*08/27/14 18:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25**		0.50	0.25	mg/L			09/03/14 18:44	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 19:37	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 19:37	1
Barium	**5.0**		5.0	1.3	ug/L		08/22/14 09:59	08/25/14 19:37	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 19:37	1
Cadmium	**0.20**	**I**	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 19:37	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 19:37	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 19:37	1
Copper	**11**		5.0	1.1	ug/L		08/22/14 09:59	08/25/14 19:37	1
Iron	**600**		100	33	ug/L		08/22/14 09:59	08/25/14 19:37	1
Lead	**0.36**	**I**	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 19:37	1
Nickel	**2.8**	**I**	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 19:37	1
Selenium	**3.0**		2.5	1.0	ug/L		08/22/14 09:59	08/25/14 19:37	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 19:37	1
Sodium	**23**		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:37	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 19:37	1
Vanadium	**31**		10	3.8	ug/L		08/22/14 09:59	08/25/14 19:37	1
Zinc	**13**	**I**	20	8.3	ug/L		08/22/14 09:59	08/25/14 19:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**230**		10	10	mg/L			08/21/14 15:06	1
Ammonia (as N)	**0.71**		0.050	0.026	mg/L			08/25/14 16:50	1
Nitrate as N	**0.42**		0.050	0.010	mg/L			08/21/14 11:33	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Yellow-Brown Tint**				PCU			08/19/14 16:18	1
Field pH	**5.89**				SU			08/19/14 16:18	1
Field Temperature	**16.5**				Degrees C			08/19/14 16:18	1
Oxygen, Dissolved	**0.4**				mg/L			08/19/14 16:18	1
Sheen	**None**				NONE			08/19/14 16:18	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB13S
Date Collected: 08/19/14 16:19
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-3
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	327				umhos/cm			08/19/14 16:18	1
Turbidity	9.41				NTU			08/19/14 16:18	1
Water Level	109.34				ft			08/19/14 16:18	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB22S
Date Collected: 08/19/14 15:10
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 17:45	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 17:45	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 17:45	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 17:45	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 17:45	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 17:45	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 17:45	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 17:45	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 17:45	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 17:45	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 17:45	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 17:45	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 17:45	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 17:45	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 17:45	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 17:45	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 17:45	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 17:45	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 17:45	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 17:45	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 17:45	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 17:45	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 17:45	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 17:45	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 17:45	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 17:45	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 17:45	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 17:45	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 17:45	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 17:45	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 17:45	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 17:45	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 17:45	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 17:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 17:45	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 17:45	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 17:45	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 17:45	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 17:45	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 17:45	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 17:45	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 17:45	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB22S
Date Collected: 08/19/14 15:10
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 130*		*08/28/14 17:45*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		08/27/14 09:53	08/27/14 18:27	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*111*		*60 - 144*	*08/27/14 09:53*	*08/27/14 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		0.50	0.25	mg/L			09/03/14 18:58	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 19:44	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 19:44	1
Barium	**5.5**		5.0	1.3	ug/L		08/22/14 09:59	08/25/14 19:44	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 19:44	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 19:44	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 19:44	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 19:44	1
Copper	**1.2**	**I**	5.0	1.1	ug/L		08/22/14 09:59	08/25/14 19:44	1
Iron	**140**		100	33	ug/L		08/22/14 09:59	08/25/14 19:44	1
Lead	0.20	U	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 19:44	1
Nickel	2.0	U	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 19:44	1
Selenium	1.0	U	2.5	1.0	ug/L		08/22/14 09:59	08/25/14 19:44	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 19:44	1
Sodium	**9.6**		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:44	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 19:44	1
Vanadium	3.8	U	10	3.8	ug/L		08/22/14 09:59	08/25/14 19:44	1
Zinc	**9.6**	**I**	20	8.3	ug/L		08/22/14 09:59	08/25/14 19:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**190**		10	10	mg/L			08/21/14 15:06	1
Ammonia (as N)	**0.29**		0.050	0.026	mg/L			08/25/14 16:50	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/19/14 15:09	1
Field pH	**5.98**				SU			08/19/14 15:09	1
Field Temperature	**25.7**				Degrees C			08/19/14 15:09	1
Oxygen, Dissolved	**0.1**				mg/L			08/19/14 15:09	1
Sheen	**None**				NONE			08/19/14 15:09	1
Specific Conductance	**274**				umhos/cm			08/19/14 15:09	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB22S
Date Collected: 08/19/14 15:10
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.61				NTU			08/19/14 15:09	1
Water Level	114.4				ft			08/19/14 15:09	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB12S
Date Collected: 08/19/14 14:33
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 18:11	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 18:11	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 18:11	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 18:11	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 18:11	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 18:11	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 18:11	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 18:11	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 18:11	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 18:11	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 18:11	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 18:11	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 18:11	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 18:11	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 18:11	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 18:11	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 18:11	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 18:11	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 18:11	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 18:11	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 18:11	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 18:11	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 18:11	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 18:11	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 18:11	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 18:11	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 18:11	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 18:11	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 18:11	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 18:11	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 18:11	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 18:11	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 18:11	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 18:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 18:11	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 18:11	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 18:11	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 18:11	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 18:11	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 18:11	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 18:11	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 18:11	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB12S
Date Collected: 08/19/14 14:33
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*08/28/14 18:11*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		08/27/14 09:53	08/27/14 18:39	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*108*		*60 - 144*	*08/27/14 09:53*	*08/27/14 18:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60**		1.0	0.50	mg/L			09/04/14 11:05	2

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 19:51	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 19:51	1
Barium	**2.3**	**I**	5.0	1.3	ug/L		08/22/14 09:59	08/25/14 19:51	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 19:51	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 19:51	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 19:51	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 19:51	1
Copper	1.1	U	5.0	1.1	ug/L		08/22/14 09:59	08/25/14 19:51	1
Iron	**79**	**I**	100	33	ug/L		08/22/14 09:59	08/25/14 19:51	1
Lead	0.20	U	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 19:51	1
Nickel	**3.9**	**I**	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 19:51	1
Selenium	**2.7**		2.5	1.0	ug/L		08/22/14 09:59	08/25/14 19:51	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 19:51	1
Sodium	**38**		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:51	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 19:51	1
Vanadium	**48**		10	3.8	ug/L		08/22/14 09:59	08/25/14 19:51	1
Zinc	8.3	U	20	8.3	ug/L		08/22/14 09:59	08/25/14 19:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**270**		10	10	mg/L			08/21/14 15:06	1
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			08/25/14 16:50	1
Nitrate as N	**0.10**		0.050	0.010	mg/L			08/21/14 11:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Yellow Tint**				PCU			08/19/14 14:32	1
Field pH	**5.78**				SU			08/19/14 14:32	1
Field Temperature	**25.6**				Degrees C			08/19/14 14:32	1
Oxygen, Dissolved	**0.3**				mg/L			08/19/14 14:32	1
Sheen	**None**				NONE			08/19/14 14:32	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB12S
Date Collected: 08/19/14 14:33
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	408				umhos/cm			08/19/14 14:32	1
Turbidity	5.23				NTU			08/19/14 14:32	1
Water Level	113.73				ft			08/19/14 14:32	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB12I
Date Collected: 08/19/14 14:03
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-6
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		0.50	0.25	mg/L			09/03/14 20:54	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	370		100	33	ug/L		08/22/14 09:59	08/25/14 19:59	1
Sodium	3.4		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 19:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	5.0	mg/L			08/21/14 15:06	1
Ammonia (as N)	0.052		0.050	0.026	mg/L			08/26/14 10:56	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/19/14 14:02	1
Field pH	5.35				SU			08/19/14 14:02	1
Field Temperature	25.8				Degrees C			08/19/14 14:02	1
Oxygen, Dissolved	0.1				mg/L			08/19/14 14:02	1
Sheen	None				NONE			08/19/14 14:02	1
Specific Conductance	39				umhos/cm			08/19/14 14:02	1
Turbidity	3.71				NTU			08/19/14 14:02	1
Water Level	116.64				ft			08/19/14 14:02	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB13I
Date Collected: 08/19/14 15:45
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-7
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3		0.50	0.25	mg/L			09/03/14 21:08	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	410		100	33	ug/L		08/22/14 09:59	08/25/14 20:06	1
Sodium	3.5		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 20:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	5.0	mg/L			08/21/14 15:06	1
Ammonia (as N)	0.056		0.050	0.026	mg/L			08/26/14 10:57	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/19/14 15:44	1
Field pH	5.25				SU			08/19/14 15:44	1
Field Temperature	25.8				Degrees C			08/19/14 15:44	1
Oxygen, Dissolved	0.2				mg/L			08/19/14 15:44	1
Sheen	None				NONE			08/19/14 15:44	1
Specific Conductance	36				umhos/cm			08/19/14 15:44	1
Turbidity	3.71				NTU			08/19/14 15:44	1
Water Level	107.96				ft			08/19/14 15:44	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB27I
Date Collected: 08/19/14 16:59
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-8
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3		0.50	0.25	mg/L			09/03/14 21:22	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	490		100	33	ug/L		08/22/14 09:59	08/25/14 20:14	1
Sodium	3.4		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 20:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		5.0	5.0	mg/L			08/21/14 15:06	1
Ammonia (as N)	0.068		0.050	0.026	mg/L			08/26/14 10:57	1
Nitrate as N	0.016	I	0.050	0.010	mg/L			08/21/14 11:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/19/14 16:58	1
Field pH	5.55				SU			08/19/14 16:58	1
Field Temperature	21.9				Degrees C			08/19/14 16:58	1
Oxygen, Dissolved	0.0				mg/L			08/19/14 16:58	1
Sheen	None				NONE			08/19/14 16:58	1
Specific Conductance	51				umhos/cm			08/19/14 16:58	1
Turbidity	4.59				NTU			08/19/14 16:58	1
Water Level	122.01				ft			08/19/14 16:58	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB29I
Date Collected: 08/19/14 18:05
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-9
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		0.50	0.25	mg/L			09/03/14 21:37	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	510		100	33	ug/L		08/22/14 09:59	08/25/14 14:05	1
Sodium	4.3		0.50	0.25	mg/L		08/22/14 09:59	08/25/14 14:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39		5.0	5.0	mg/L			08/24/14 14:00	1
Ammonia (as N)	0.056		0.050	0.026	mg/L			08/26/14 11:06	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			08/21/14 11:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/19/14 18:04	1
Field pH	5.17				SU			08/19/14 18:04	1
Field Temperature	23.5				Degrees C			08/19/14 18:04	1
Oxygen, Dissolved	0.2				mg/L			08/19/14 18:04	1
Sheen	None				NONE			08/19/14 18:04	1
Specific Conductance	41				umhos/cm			08/19/14 18:04	1
Turbidity	3.3				NTU			08/19/14 18:04	1
Water Level	130.66				ft			08/19/14 18:04	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: Trip Blank 48933
Date Collected: 08/19/14 00:00
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 12:41	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 12:41	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 12:41	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 12:41	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 12:41	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 12:41	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 12:41	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 12:41	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 12:41	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 12:41	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 12:41	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 12:41	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 12:41	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 12:41	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 12:41	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 12:41	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 12:41	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 12:41	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 12:41	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 12:41	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 12:41	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 12:41	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 12:41	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 12:41	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 12:41	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 12:41	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 12:41	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 12:41	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 12:41	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 12:41	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 12:41	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 12:41	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 12:41	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 12:41	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 12:41	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 12:41	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 12:41	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 12:41	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 12:41	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 12:41	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 12:41	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 12:41	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: Trip Blank 48933
Date Collected: 08/19/14 00:00
Date Received: 08/21/14 08:15

Lab Sample ID: 640-48933-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		70 - 130		08/28/14 12:41	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB2I
Date Collected: 08/20/14 09:51
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		0.50	0.25	mg/L			09/03/14 22:20	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	410		100	33	ug/L		08/25/14 15:12	08/29/14 02:16	1
Sodium	5.1		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 02:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	0.031	I	0.050	0.026	mg/L			08/26/14 11:06	1
Nitrate as N	0.010	Q U	0.050	0.010	mg/L			08/22/14 11:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/20/14 09:50	1
Field pH	4.82				SU			08/20/14 09:50	1
Field Temperature	21.5				Degrees C			08/20/14 09:50	1
Oxygen, Dissolved	0.3				mg/L			08/20/14 09:50	1
Sheen	None				NONE			08/20/14 09:50	1
Specific Conductance	41				umhos/cm			08/20/14 09:50	1
Turbidity	3.07				NTU			08/20/14 09:50	1
Water Level	134.23				ft			08/20/14 09:50	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB3I
Date Collected: 08/20/14 11:26
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		0.50	0.25	mg/L			09/03/14 22:34	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	820		100	33	ug/L		08/25/14 15:12	08/29/14 02:23	1
Sodium	4.1		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 02:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	25		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			08/26/14 11:06	1
Nitrate as N	0.010	Q U	0.050	0.010	mg/L			08/22/14 11:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/20/14 11:25	1
Field pH	4.83				SU			08/20/14 11:25	1
Field Temperature	21.1				Degrees C			08/20/14 11:25	1
Oxygen, Dissolved	0.0				mg/L			08/20/14 11:25	1
Sheen	None				NONE			08/20/14 11:25	1
Specific Conductance	40				umhos/cm			08/20/14 11:25	1
Turbidity	2.08				NTU			08/20/14 11:25	1
Water Level	137.83				ft			08/20/14 11:25	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB11I (R)
Date Collected: 08/20/14 12:34
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3		0.50	0.25	mg/L			09/03/14 22:49	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	390		100	33	ug/L		08/25/14 15:12	08/29/14 02:31	1
Sodium	3.5		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 02:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	0.047	I	0.050	0.026	mg/L			08/26/14 11:06	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/20/14 12:33	1
Field pH	4.86				SU			08/20/14 12:33	1
Field Temperature	24.4				Degrees C			08/20/14 12:33	1
Oxygen, Dissolved	0.0				mg/L			08/20/14 12:33	1
Sheen	None				NONE			08/20/14 12:33	1
Specific Conductance	36				umhos/cm			08/20/14 12:33	1
Turbidity	3.97				NTU			08/20/14 12:33	1
Water Level	108.22				ft			08/20/14 12:33	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB34I
Date Collected: 08/20/14 13:39
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		0.50	0.25	mg/L			09/03/14 23:03	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	430		100	33	ug/L		08/25/14 15:12	08/29/14 02:52	1
Sodium	3.6		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 02:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	0.067		0.050	0.026	mg/L			08/26/14 11:36	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			08/20/14 13:38	1
Field pH	5.38				SU			08/20/14 13:38	1
Field Temperature	25.7				Degrees C			08/20/14 13:38	1
Oxygen, Dissolved	0.0				mg/L			08/20/14 13:38	1
Sheen	None				NONE			08/20/14 13:38	1
Specific Conductance	43				umhos/cm			08/20/14 13:38	1
Turbidity	3.44				NTU			08/20/14 13:38	1
Water Level	116.75				ft			08/20/14 13:38	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB32I
Date Collected: 08/20/14 15:21
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		0.50	0.25	mg/L			09/03/14 23:46	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150		100	33	ug/L		08/25/14 15:12	08/29/14 03:00	1
Sodium	3.5		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	0.041	I	0.050	0.026	mg/L			08/26/14 11:36	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Sl Whitish Tint				PCU			08/20/14 15:20	1
Field pH	5.3				SU			08/20/14 15:20	1
Field Temperature	22.0				Degrees C			08/20/14 15:20	1
Oxygen, Dissolved	0.0				mg/L			08/20/14 15:20	1
Sheen	None				NONE			08/20/14 15:20	1
Specific Conductance	41				umhos/cm			08/20/14 15:20	1
Turbidity	9.02				NTU			08/20/14 15:20	1
Water Level	117.01				ft			08/20/14 15:20	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: FIELD BLANK 01 48951
Date Collected: 08/20/14 16:05
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 15:25	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 15:25	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 15:25	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 15:25	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 15:25	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 15:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 15:25	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 15:25	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 15:25	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 15:25	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 15:25	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 15:25	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 15:25	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 15:25	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 15:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 15:25	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 15:25	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 15:25	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 15:25	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 15:25	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 15:25	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 15:25	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 15:25	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 15:25	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 15:25	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 15:25	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 15:25	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 15:25	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 15:25	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 15:25	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 15:25	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 15:25	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 15:25	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 15:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 15:25	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 15:25	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 15:25	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:25	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 15:25	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 15:25	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 15:25	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 15:25	1

Client Sample ID: FIELD BLANK 01 48951
Date Collected: 08/20/14 16:05
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*08/29/14 15:25*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0055	U	0.022	0.0055	ug/L		08/27/14 09:53	08/27/14 18:51	1
EDB	0.0024	U	0.022	0.0024	ug/L		08/27/14 09:53	08/27/14 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*111*		*60 - 144*	*08/27/14 09:53*	*08/27/14 18:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			09/04/14 00:01	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:07	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:07	1
Barium	1.3	U	5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:07	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:07	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:07	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:07	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:07	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:07	1
Iron	33	U	100	33	ug/L		08/25/14 15:12	08/29/14 03:07	1
Lead	0.20	U	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:07	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:07	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:07	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:07	1
Sodium	0.25	U	0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:07	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:07	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 15:12	08/29/14 03:07	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 03:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:19	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			08/26/14 12:51	1
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			08/26/14 10:57	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:57	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB32S
Date Collected: 08/20/14 15:52
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 15:54	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 15:54	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 15:54	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 15:54	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 15:54	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 15:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 15:54	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 15:54	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 15:54	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 15:54	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 15:54	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 15:54	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 15:54	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 15:54	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 15:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 15:54	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 15:54	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 15:54	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 15:54	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 15:54	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 15:54	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 15:54	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 15:54	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 15:54	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 15:54	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 15:54	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 15:54	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 15:54	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 15:54	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 15:54	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 15:54	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 15:54	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 15:54	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 15:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 15:54	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 15:54	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 15:54	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 15:54	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 15:54	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 15:54	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 15:54	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 15:54	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB32S
Date Collected: 08/20/14 15:52
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*08/29/14 15:54*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		08/27/14 09:53	08/27/14 19:03	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*107*		*60 - 144*	*08/27/14 09:53*	*08/27/14 19:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27**		0.50	0.25	mg/L			09/04/14 00:15	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:14	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:14	1
Barium	**43**		5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:14	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:14	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:14	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:14	1
Cobalt	**0.50**		0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:14	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:14	1
Iron	**1100**		100	33	ug/L		08/25/14 15:12	08/29/14 03:14	1
Lead	**0.39**	**I**	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:14	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:14	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:14	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:14	1
Sodium	**17**		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:14	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:14	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 15:12	08/29/14 03:14	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 03:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.85**		0.050	0.026	mg/L			08/26/14 11:36	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			08/20/14 15:51	1
Field pH	**5.15**				SU			08/20/14 15:51	1
Field Temperature	**23.9**				Degrees C			08/20/14 15:51	1
Oxygen, Dissolved	**0.4**				mg/L			08/20/14 15:51	1
Sheen	**None**				NONE			08/20/14 15:51	1
Specific Conductance	**175**				umhos/cm			08/20/14 15:51	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB32S
Date Collected: 08/20/14 15:52
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-7
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	6.39				NTU			08/20/14 15:51	1
Water Level	115.76				ft			08/20/14 15:51	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB33S
Date Collected: 08/20/14 14:45
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-8
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 16:23	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 16:23	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 16:23	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 16:23	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 16:23	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 16:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 16:23	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 16:23	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 16:23	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 16:23	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 16:23	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 16:23	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 16:23	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 16:23	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 16:23	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 16:23	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 16:23	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 16:23	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 16:23	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 16:23	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 16:23	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 16:23	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 16:23	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 16:23	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 16:23	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 16:23	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 16:23	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 16:23	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 16:23	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 16:23	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 16:23	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 16:23	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 16:23	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 16:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 16:23	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 16:23	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 16:23	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:23	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 16:23	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 16:23	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 16:23	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 16:23	1

Client Sample ID: MWB33S
Date Collected: 08/20/14 14:45
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*08/29/14 16:23*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		08/27/14 09:53	08/27/14 19:15	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*107*		*60 - 144*	*08/27/14 09:53*	*08/27/14 19:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.8**		0.50	0.25	mg/L			09/04/14 00:58	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:22	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:22	1
Barium	**6.9**		5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:22	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:22	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:22	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:22	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:22	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:22	1
Iron	**95**	**I**	100	33	ug/L		08/25/14 15:12	08/29/14 03:22	1
Lead	0.20	U	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:22	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:22	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:22	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:22	1
Sodium	**8.0**		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:22	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:22	1
Vanadium	**6.0**	**I**	10	3.8	ug/L		08/25/14 15:12	08/29/14 03:22	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 03:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**150**		10	10	mg/L			08/26/14 12:51	1
Ammonia (as N)	**1.2**		0.050	0.026	mg/L			08/26/14 11:36	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Yellow Tint**				PCU			08/20/14 14:44	1
Field pH	**5.67**				SU			08/20/14 14:44	1
Field Temperature	**24.2**				Degrees C			08/20/14 14:44	1
Oxygen, Dissolved	**0.1**				mg/L			08/20/14 14:44	1
Sheen	**None**				NONE			08/20/14 14:44	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB33S
Date Collected: 08/20/14 14:45
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-8
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	268				umhos/cm			08/20/14 14:44	1
Turbidity	1.78				NTU			08/20/14 14:44	1
Water Level	115.29				ft			08/20/14 14:44	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB34S
Date Collected: 08/20/14 14:12
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 16:53	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 16:53	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 16:53	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 16:53	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 16:53	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 16:53	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 16:53	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 16:53	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 16:53	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 16:53	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 16:53	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 16:53	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 16:53	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 16:53	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 16:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 16:53	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 16:53	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 16:53	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 16:53	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 16:53	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 16:53	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 16:53	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 16:53	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 16:53	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 16:53	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 16:53	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 16:53	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 16:53	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 16:53	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 16:53	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 16:53	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 16:53	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 16:53	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 16:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 16:53	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 16:53	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 16:53	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 16:53	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 16:53	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 16:53	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 16:53	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 16:53	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB34S
Date Collected: 08/20/14 14:12
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*08/29/14 16:53*	*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		08/27/14 09:53	08/27/14 19:27	1
EDB	0.0022	U	0.020	0.0022	ug/L		08/27/14 09:53	08/27/14 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*110*		*60 - 144*	*08/27/14 09:53*	*08/27/14 19:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63**		1.0	0.50	mg/L			09/04/14 11:21	2

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:29	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:29	1
Barium	**4.3**	**I**	5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:29	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:29	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:29	1
Chromium	**2.7**	**I**	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:29	1
Cobalt	**0.83**		0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:29	1
Copper	**3.8**	**I**	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:29	1
Iron	**290**		100	33	ug/L		08/25/14 15:12	08/29/14 03:29	1
Lead	**0.21**	**I**	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:29	1
Nickel	**5.2**		5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:29	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:29	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:29	1
Sodium	**89**		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:29	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:29	1
Vanadium	**11**		10	3.8	ug/L		08/25/14 15:12	08/29/14 03:29	1
Zinc	**45**		20	8.3	ug/L		08/25/14 15:12	08/29/14 03:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**420**		10	10	mg/L			08/26/14 12:51	1
Ammonia (as N)	**3.3**		0.10	0.052	mg/L			08/26/14 11:43	2
Nitrate as N	**0.083**	**J**	0.050	0.010	mg/L			08/22/14 11:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Yellow Tint**				PCU			08/20/14 14:11	1
Field pH	**6.1**				SU			08/20/14 14:11	1
Field Temperature	**25.0**				Degrees C			08/20/14 14:11	1
Oxygen, Dissolved	**0.0**				mg/L			08/20/14 14:11	1
Sheen	**None**				NONE			08/20/14 14:11	1
Specific Conductance	**702**				umhos/cm			08/20/14 14:11	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB34S
Date Collected: 08/20/14 14:12
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	1.31				NTU			08/20/14 14:11	1
Water Level	115.9				ft			08/20/14 14:11	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB11S
Date Collected: 08/20/14 13:04
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 17:22	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 17:22	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 17:22	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 17:22	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 17:22	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 17:22	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 17:22	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 17:22	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 17:22	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 17:22	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 17:22	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 17:22	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 17:22	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 17:22	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 17:22	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 17:22	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 17:22	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 17:22	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 17:22	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 17:22	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 17:22	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 17:22	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 17:22	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 17:22	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 17:22	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 17:22	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 17:22	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 17:22	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 17:22	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 17:22	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 17:22	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 17:22	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 17:22	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 17:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 17:22	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 17:22	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 17:22	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:22	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 17:22	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 17:22	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 17:22	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 17:22	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB11S
Date Collected: 08/20/14 13:04
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*08/29/14 17:22*	*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		08/27/14 09:53	08/27/14 19:39	1
EDB	0.0024	U	0.022	0.0024	ug/L		08/27/14 09:53	08/27/14 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*106*		*60 - 144*	*08/27/14 09:53*	*08/27/14 19:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		0.50	0.25	mg/L			09/04/14 01:27	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:36	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:36	1
Barium	**69**		5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:36	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:36	1
Cobalt	**0.56**		0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:36	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:36	1
Iron	**1700**		100	33	ug/L		08/25/14 15:12	08/29/14 03:36	1
Lead	0.20	U	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:36	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:36	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:36	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:36	1
Sodium	**12**		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:36	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:36	1
Vanadium	**7.5**	**I**	10	3.8	ug/L		08/25/14 15:12	08/29/14 03:36	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 03:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**100**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.12**		0.050	0.026	mg/L			08/26/14 11:36	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/20/14 13:03	1
Field pH	**4.03**				SU			08/20/14 13:03	1
Field Temperature	**23.2**				Degrees C			08/20/14 13:03	1
Oxygen, Dissolved	**0.0**				mg/L			08/20/14 13:03	1
Sheen	**None**				NONE			08/20/14 13:03	1
Specific Conductance	**174**				umhos/cm			08/20/14 13:03	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB11S
Date Collected: 08/20/14 13:04
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	2.52				NTU			08/20/14 13:03	1
Water Level	108.42				ft			08/20/14 13:03	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB20S
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 17:52	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 17:52	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 17:52	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 17:52	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 17:52	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 17:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 17:52	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 17:52	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 17:52	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 17:52	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 17:52	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 17:52	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 17:52	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 17:52	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 17:52	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 17:52	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 17:52	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 17:52	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 17:52	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 17:52	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 17:52	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 17:52	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 17:52	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 17:52	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 17:52	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 17:52	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 17:52	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 17:52	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 17:52	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 17:52	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 17:52	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 17:52	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 17:52	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 17:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 17:52	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 17:52	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 17:52	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 17:52	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 17:52	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 17:52	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 17:52	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 17:52	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB20S
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		08/29/14 17:52	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		08/27/14 09:53	08/27/14 19:51	1
EDB	0.0023	U	0.021	0.0023	ug/L		08/27/14 09:53	08/27/14 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	105		60 - 144	08/27/14 09:53	08/27/14 19:51	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.0**		0.50	0.25	mg/L			09/04/14 01:42	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 03:44	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 03:44	1
Barium	**11**		5.0	1.3	ug/L		08/25/14 15:12	08/29/14 03:44	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 03:44	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 03:44	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 03:44	1
Cobalt	**0.15**	**I**	0.50	0.15	ug/L		08/25/14 15:12	08/29/14 03:44	1
Copper	**1.3**	**I**	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 03:44	1
Iron	**180**		100	33	ug/L		08/25/14 15:12	08/29/14 03:44	1
Lead	**0.48**	**I**	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 03:44	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 03:44	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 03:44	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 03:44	1
Sodium	**4.3**		0.50	0.25	mg/L		08/25/14 15:12	08/29/14 03:44	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 03:44	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 15:12	08/29/14 03:44	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 03:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**60**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.27**		0.050	0.026	mg/L			08/26/14 11:39	1
Nitrate as N	0.010	J U	0.050	0.010	mg/L			08/22/14 11:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			08/20/14 11:59	1
Field pH	**4.26**				SU			08/20/14 11:59	1
Field Temperature	**26.0**				Degrees C			08/20/14 11:59	1
Oxygen, Dissolved	**0.0**				mg/L			08/20/14 11:59	1
Sheen	**None**				NONE			08/20/14 11:59	1
Specific Conductance	**74**				umhos/cm			08/20/14 11:59	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB20S
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-11
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	6.11				NTU			08/20/14 11:59	1
Water Level	112.81				ft			08/20/14 11:59	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB3S
Date Collected: 08/20/14 10:54
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-12
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 18:21	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 18:21	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 18:21	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 18:21	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 18:21	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 18:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 18:21	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 18:21	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 18:21	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 18:21	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 18:21	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 18:21	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 18:21	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 18:21	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 18:21	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 18:21	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 18:21	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 18:21	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 18:21	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 18:21	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 18:21	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 18:21	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 18:21	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 18:21	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 18:21	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 18:21	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 18:21	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 18:21	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 18:21	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 18:21	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 18:21	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 18:21	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 18:21	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 18:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 18:21	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 18:21	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 18:21	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:21	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 18:21	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 18:21	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 18:21	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 18:21	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB3S
Date Collected: 08/20/14 10:54
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*08/29/14 18:21*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.021	0.0054	ug/L		08/27/14 09:53	08/27/14 20:03	1
EDB	0.0024	U	0.021	0.0024	ug/L		08/27/14 09:53	08/27/14 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*108*		*60 - 144*	*08/27/14 09:53*	*08/27/14 20:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		0.50	0.25	mg/L			09/04/14 01:56	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 17:52	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/26/14 07:47	08/26/14 17:52	1
Barium	**15**		5.0	1.3	ug/L		08/26/14 07:47	08/26/14 17:52	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/26/14 07:47	08/26/14 17:52	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 17:52	1
Chromium	2.5	U	5.0	2.5	ug/L		08/26/14 07:47	08/26/14 17:52	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/26/14 07:47	08/26/14 17:52	1
Copper	1.1	U	5.0	1.1	ug/L		08/26/14 07:47	08/26/14 17:52	1
Iron	**3500**		100	33	ug/L		08/26/14 07:47	08/26/14 17:52	1
Lead	**0.25**	**I**	1.5	0.20	ug/L		08/26/14 07:47	08/26/14 17:52	1
Nickel	2.0	U	5.0	2.0	ug/L		08/26/14 07:47	08/26/14 17:52	1
Selenium	1.0	U	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 17:52	1
Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 17:52	1
Sodium	**5.8**		0.50	0.25	mg/L		08/26/14 07:47	08/26/14 17:52	1
Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 17:52	1
Vanadium	3.8	U	10	3.8	ug/L		08/26/14 07:47	08/26/14 17:52	1
Zinc	8.3	U	20	8.3	ug/L		08/26/14 07:47	08/26/14 17:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**31**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.12**		0.050	0.026	mg/L			08/26/14 10:57	1
Nitrate as N	0.010	Q U	0.050	0.010	mg/L			08/22/14 12:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/20/14 10:53	1
Field pH	**4.59**				SU			08/20/14 10:53	1
Field Temperature	**21.9**				Degrees C			08/20/14 10:53	1
Oxygen, Dissolved	**1.0**				mg/L			08/20/14 10:53	1
Sheen	**None**				NONE			08/20/14 10:53	1
Specific Conductance	**59**				umhos/cm			08/20/14 10:53	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB3S
Date Collected: 08/20/14 10:54
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-12
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.88				NTU			08/20/14 10:53	1
Water Level	145.77				ft			08/20/14 10:53	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB2S
Date Collected: 08/20/14 10:20
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 18:50	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 18:50	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 18:50	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 18:50	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 18:50	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 18:50	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 18:50	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 18:50	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 18:50	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 18:50	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 18:50	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 18:50	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 18:50	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 18:50	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 18:50	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 18:50	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 18:50	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 18:50	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 18:50	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 18:50	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 18:50	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 18:50	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 18:50	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 18:50	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 18:50	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 18:50	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 18:50	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 18:50	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 18:50	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 18:50	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 18:50	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 18:50	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 18:50	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 18:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 18:50	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 18:50	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 18:50	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 18:50	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 18:50	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 18:50	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 18:50	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 18:50	1

Client Sample ID: MWB2S
Date Collected: 08/20/14 10:20
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*08/29/14 18:50*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.021	0.0054	ug/L		08/27/14 09:53	08/27/14 20:15	1
EDB	0.0024	U	0.021	0.0024	ug/L		08/27/14 09:53	08/27/14 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*95*		*60 - 144*	*08/27/14 09:53*	*08/27/14 20:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		0.50	0.25	mg/L			09/04/14 03:08	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 18:15	1
Arsenic	**3.1**		2.5	1.3	ug/L		08/26/14 07:47	08/26/14 18:15	1
Barium	**80**		5.0	1.3	ug/L		08/26/14 07:47	08/26/14 18:15	1
Beryllium	**0.79**		0.50	0.25	ug/L		08/26/14 07:47	08/26/14 18:15	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 18:15	1
Chromium	**20**		5.0	2.5	ug/L		08/26/14 07:47	08/26/14 18:15	1
Cobalt	**3.3**		0.50	0.15	ug/L		08/26/14 07:47	08/26/14 18:15	1
Copper	**7.2**		5.0	1.1	ug/L		08/26/14 07:47	08/26/14 18:15	1
Iron	**10000**		100	33	ug/L		08/26/14 07:47	08/26/14 18:15	1
Lead	**16**		1.5	0.20	ug/L		08/26/14 07:47	08/26/14 18:15	1
Nickel	**8.6**		5.0	2.0	ug/L		08/26/14 07:47	08/26/14 18:15	1
Selenium	**1.5**	**I**	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 18:15	1
Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 18:15	1
Sodium	**7.2**		0.50	0.25	mg/L		08/26/14 07:47	08/26/14 18:15	1
Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 18:15	1
Vanadium	**26**		10	3.8	ug/L		08/26/14 07:47	08/26/14 18:15	1
Zinc	**16**	**I**	20	8.3	ug/L		08/26/14 07:47	08/26/14 18:15	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Barium	**11**		5.0	1.3	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Cobalt	**0.21**	**I**	0.50	0.15	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Iron	**180**		100	33	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Sodium	**5.9**		0.50	0.25	mg/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 18:22	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB2S
Date Collected: 08/20/14 10:20
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/26/14 07:47	08/26/14 18:22	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		08/26/14 07:47	08/26/14 18:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 18:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**70**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.18**		0.050	0.026	mg/L			08/26/14 11:14	1
Nitrate as N	**0.030**	**I Q**	0.050	0.010	mg/L			08/22/14 12:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown**				PCU			08/20/14 10:19	1
Field pH	**4.47**				SU			08/20/14 10:19	1
Field Temperature	**25.3**				Degrees C			08/20/14 10:19	1
Oxygen, Dissolved	**0.7**				mg/L			08/20/14 10:19	1
Sheen	**None**				NONE			08/20/14 10:19	1
Specific Conductance	**84**				umhos/cm			08/20/14 10:19	1
Turbidity	**85.22**				NTU			08/20/14 10:19	1
Water Level	**136.77**				ft			08/20/14 10:19	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB21S
Date Collected: 08/20/14 09:18
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-14
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 19:20	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 19:20	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 19:20	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 19:20	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 19:20	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 19:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 19:20	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 19:20	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 19:20	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 19:20	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 19:20	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 19:20	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 19:20	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 19:20	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 19:20	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 19:20	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 19:20	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 19:20	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 19:20	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 19:20	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 19:20	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 19:20	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 19:20	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 19:20	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 19:20	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 19:20	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 19:20	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 19:20	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 19:20	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 19:20	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 19:20	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 19:20	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 19:20	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 19:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 19:20	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 19:20	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 19:20	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 19:20	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 19:20	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 19:20	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 19:20	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 19:20	1

Client Sample ID: MWB21S
Date Collected: 08/20/14 09:18
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*08/29/14 19:20*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	**0.0079**	**I**	0.020	0.0050	ug/L		08/27/14 09:53	08/27/14 20:26	1
EDB	0.0022	U	0.020	0.0022	ug/L		08/27/14 09:53	08/27/14 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*111*		*60 - 144*	*08/27/14 09:53*	*08/27/14 20:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.0**		0.50	0.25	mg/L			09/04/14 03:22	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 18:29	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/26/14 07:47	08/26/14 18:29	1
Barium	**16**		5.0	1.3	ug/L		08/26/14 07:47	08/26/14 18:29	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/26/14 07:47	08/26/14 18:29	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 18:29	1
Chromium	2.5	U	5.0	2.5	ug/L		08/26/14 07:47	08/26/14 18:29	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/26/14 07:47	08/26/14 18:29	1
Copper	1.1	U	5.0	1.1	ug/L		08/26/14 07:47	08/26/14 18:29	1
Iron	**590**		100	33	ug/L		08/26/14 07:47	08/26/14 18:29	1
Lead	0.20	U	1.5	0.20	ug/L		08/26/14 07:47	08/26/14 18:29	1
Nickel	2.0	U	5.0	2.0	ug/L		08/26/14 07:47	08/26/14 18:29	1
Selenium	1.0	U	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 18:29	1
Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 18:29	1
Sodium	**3.4**		0.50	0.25	mg/L		08/26/14 07:47	08/26/14 18:29	1
Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 18:29	1
Vanadium	3.8	U	10	3.8	ug/L		08/26/14 07:47	08/26/14 18:29	1
Zinc	8.3	U	20	8.3	ug/L		08/26/14 07:47	08/26/14 18:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 08:40	08/25/14 16:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**36**		5.0	5.0	mg/L			08/26/14 12:51	1
Ammonia (as N)	**0.15**		0.050	0.026	mg/L			08/26/14 11:14	1
Nitrate as N	0.010	Q U	0.050	0.010	mg/L			08/22/14 12:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			08/20/14 09:17	1
Field pH	**5.16**				SU			08/20/14 09:17	1
Field Temperature	**25.1**				Degrees C			08/20/14 09:17	1
Oxygen, Dissolved	**0.0**				mg/L			08/20/14 09:17	1
Sheen	**None**				NONE			08/20/14 09:17	1
Specific Conductance	**43**				umhos/cm			08/20/14 09:17	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: MWB21S
Date Collected: 08/20/14 09:18
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-14
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.92				NTU			08/20/14 09:17	1
Water Level	111.93				ft			08/20/14 09:17	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: TRIP02 BLANK 48951
Date Collected: 08/20/14 00:00
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 14:56	1
Acrylonitrile	7.2	J U	20	7.2	ug/L			08/29/14 14:56	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 14:56	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 14:56	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 14:56	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 14:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 14:56	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 14:56	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 14:56	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 14:56	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 14:56	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 14:56	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 14:56	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 14:56	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 14:56	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 14:56	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 14:56	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 14:56	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 14:56	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 14:56	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 14:56	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 14:56	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 14:56	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 14:56	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 14:56	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 14:56	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 14:56	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 14:56	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 14:56	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 14:56	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 14:56	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 14:56	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 14:56	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 14:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 14:56	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 14:56	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 14:56	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 14:56	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 14:56	1
Vinyl acetate	0.28	J U	2.0	0.28	ug/L			08/29/14 14:56	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 14:56	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 14:56	1

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

TestAmerica Job ID: 640-48932-1

Client Sample ID: TRIP02 BLANK 48951
Date Collected: 08/20/14 00:00
Date Received: 08/22/14 08:20

Lab Sample ID: 640-48951-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		08/29/14 14:56	1

Surrogate Summary

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

TestAmerica Job ID: 640-48932-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TOL (70-130)	12DCE (70-130)								
640-48932-1	SW-1		86								
640-48932-2	SW-3		86								
640-48932-3	Trip Blank 48932		86								
640-48933-1	MWB29S		79								
640-48933-2	MWB27S		80								
640-48933-3	MWB13S		81								
640-48933-4	MWB22S		80								
640-48933-5	MWB12S		84								
640-48933-10	Trip Blank 48933		82								
640-48951-6	FIELD BLANK 01 48951		91								
640-48951-7	MWB32S		92								
640-48951-8	MWB33S		91								
640-48951-9	MWB34S		91								
640-48951-10	MWB11S		92								
640-48951-11	MWB20S		91								
640-48951-12	MWB3S		92								
640-48951-13	MWB2S		91								
640-48951-14	MWB21S		93								
640-48951-15	TRIP02 BLANK 48951		91								
LCS 680-346308/3	Lab Control Sample	103	102								
LCS 680-346586/4	Lab Control Sample	116	107								
LCS 680-346741/3	Lab Control Sample	99	100								
LCSD 680-346308/4	Lab Control Sample Dup	115	112								
LCSD 680-346586/5	Lab Control Sample Dup	95	86								
LCSD 680-346741/4	Lab Control Sample Dup	95	98								
MB 680-346308/8	Method Blank	94	81								
MB 680-346586/8	Method Blank	109	89								
MB 680-346741/8	Method Blank	98	90								

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PCA1 (60-144)									
640-48932-1	SW-1	115									
640-48951-7 MS	MWB32S	136									
640-48951-9	MWB34S	110									

Surrogate Legend

PCA = Pentachloroethane

Surrogate Summary

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

TestAmerica Job ID: 640-48932-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		PCA2						
Lab Sample ID	Client Sample ID	(60-144)						
640-48932-2	SW-3	111						
640-48933-1	MWB29S	110						
640-48933-2	MWB27S	114						
640-48933-3	MWB13S	113						
640-48933-4	MWB22S	111						
640-48933-5	MWB12S	108						
640-48951-6	FIELD BLANK 01 48951	111						
640-48951-6 MS	FIELD BLANK 01 48951	108						
640-48951-6 MSD	FIELD BLANK 01 48951	106						
640-48951-7	MWB32S	107						
640-48951-8	MWB33S	107						
640-48951-10	MWB11S	106						
640-48951-11	MWB20S	105						
640-48951-12	MWB3S	108						
640-48951-13	MWB2S	95						
640-48951-14	MWB21S	111						
LCS 680-345210/4-A	Lab Control Sample	116						
LCS 680-345698/11-A	Lab Control Sample	108						
LCSD 680-345210/5-A	Lab Control Sample Dup	114						
LCSD 680-345698/12-A	Lab Control Sample Dup	106						
MB 680-345210/3-A	Method Blank	112						
MB 680-345698/10-A	Method Blank	107						

Surrogate Legend

PCA = Pentachloroethane

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

Lab Sample ID: MB 680-346308/8
Matrix: Water
Analysis Batch: 346308

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/28/14 11:25	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/28/14 11:25	1
Benzene	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/28/14 11:25	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/28/14 11:25	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/28/14 11:25	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/28/14 11:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/28/14 11:25	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/28/14 11:25	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/28/14 11:25	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/28/14 11:25	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/28/14 11:25	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/28/14 11:25	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 11:25	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/28/14 11:25	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/28/14 11:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/28/14 11:25	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/28/14 11:25	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/28/14 11:25	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/28/14 11:25	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/28/14 11:25	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/28/14 11:25	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/28/14 11:25	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/28/14 11:25	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/28/14 11:25	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/28/14 11:25	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/28/14 11:25	1
Styrene	0.11	U	1.0	0.11	ug/L			08/28/14 11:25	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/28/14 11:25	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/28/14 11:25	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/28/14 11:25	1
Toluene	0.33	U	1.0	0.33	ug/L			08/28/14 11:25	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/28/14 11:25	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/28/14 11:25	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/28/14 11:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/28/14 11:25	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/28/14 11:25	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/28/14 11:25	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/28/14 11:25	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/28/14 11:25	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/28/14 11:25	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/28/14 11:25	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/28/14 11:25	1

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

Lab Sample ID: MB 680-346308/8
Matrix: Water
Analysis Batch: 346308

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130		08/28/14 11:25	1

Lab Sample ID: LCS 680-346308/3
Matrix: Water
Analysis Batch: 346308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	300		ug/L		120	39 - 162
Acrylonitrile	500	513		ug/L		103	50 - 150
Benzene	50.0	50.2		ug/L		100	74 - 123
Bromoform	50.0	53.3		ug/L		107	60 - 134
Bromomethane	50.0	36.0		ug/L		72	10 - 171
2-Butanone (MEK)	250	258		ug/L		103	55 - 142
Carbon disulfide	50.0	46.4		ug/L		93	63 - 142
Carbon tetrachloride	50.0	51.5		ug/L		103	70 - 131
Chlorobenzene	50.0	50.4		ug/L		101	79 - 120
Chlorobromomethane	50.0	52.1		ug/L		104	60 - 136
Chlorodibromomethane	50.0	55.8		ug/L		112	63 - 134
Chloroethane	50.0	49.8		ug/L		100	47 - 148
Chloroform	50.0	51.8		ug/L		104	76 - 128
Chloromethane	50.0	39.0		ug/L		78	47 - 151
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	78 - 127
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	57 - 126
Dibromomethane	50.0	53.9		ug/L		108	75 - 122
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	77 - 124
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	76 - 124
Dichlorobromomethane	50.0	52.8		ug/L		106	72 - 129
1,1-Dichloroethane	50.0	52.1		ug/L		104	69 - 132
1,2-Dichloroethane	50.0	52.4		ug/L		105	75 - 120
1,1-Dichloroethene	50.0	54.5		ug/L		109	73 - 134
1,2-Dichloropropane	50.0	50.4		ug/L		101	71 - 126
Ethylbenzene	50.0	48.9		ug/L		98	78 - 125
Ethylene Dibromide	50.0	51.5		ug/L		103	75 - 127
2-Hexanone	250	251		ug/L		100	52 - 149
Iodomethane	50.0	48.3		ug/L		97	50 - 150
Methylene Chloride	50.0	50.0		ug/L		100	79 - 124
4-Methyl-2-pentanone (MIBK)	250	251		ug/L		100	51 - 143
Styrene	50.0	52.7		ug/L		105	75 - 129
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	68 - 132
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	71 - 127
Tetrachloroethene	50.0	52.5		ug/L		105	77 - 128
Toluene	50.0	50.7		ug/L		101	77 - 125
trans-1,4-Dichloro-2-butene	50.0	63.4		ug/L		127	50 - 150
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 130
trans-1,3-Dichloropropene	50.0	56.4		ug/L		113	72 - 127
1,1,1-Trichloroethane	50.0	55.2		ug/L		110	76 - 126
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	69 - 127

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

Lab Sample ID: LCS 680-346308/3
Matrix: Water
Analysis Batch: 346308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.6		ug/L		103	66 - 144
1,2,3-Trichloropropane	50.0	51.9		ug/L		104	74 - 126
Vinyl acetate	100	82.8		ug/L		83	10 - 200
Vinyl chloride	50.0	45.1		ug/L		90	58 - 141
Xylenes, Total	100	99.4		ug/L		99	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-346308/4
Matrix: Water
Analysis Batch: 346308

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	357		ug/L		143	39 - 162	17	50
Acrylonitrile	500	567		ug/L		113	50 - 150	10	50
Benzene	50.0	55.1		ug/L		110	74 - 123	9	30
Bromoform	50.0	54.0		ug/L		108	60 - 134	1	30
Bromomethane	50.0	31.5		ug/L		63	10 - 171	13	50
2-Butanone (MEK)	250	280		ug/L		112	55 - 142	8	30
Carbon disulfide	50.0	51.7		ug/L		103	63 - 142	11	30
Carbon tetrachloride	50.0	58.1		ug/L		116	70 - 131	12	30
Chlorobenzene	50.0	52.7		ug/L		105	79 - 120	4	30
Chlorobromomethane	50.0	56.7		ug/L		113	60 - 136	8	30
Chlorodibromomethane	50.0	60.8		ug/L		122	63 - 134	9	50
Chloroethane	50.0	59.5		ug/L		119	47 - 148	18	40
Chloroform	50.0	57.8		ug/L		116	76 - 128	11	30
Chloromethane	50.0	43.3		ug/L		87	47 - 151	10	30
cis-1,2-Dichloroethene	50.0	56.8		ug/L		114	78 - 127	11	30
cis-1,3-Dichloropropene	50.0	55.5		ug/L		111	73 - 128	7	30
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	57 - 126	5	50
Dibromomethane	50.0	59.7		ug/L		119	75 - 122	10	30
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	77 - 124	6	30
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	76 - 124	5	30
Dichlorobromomethane	50.0	58.1		ug/L		116	72 - 129	10	30
1,1-Dichloroethane	50.0	55.8		ug/L		112	69 - 132	7	30
1,2-Dichloroethane	50.0	58.9		ug/L		118	75 - 120	12	30
1,1-Dichloroethene	50.0	60.6		ug/L		121	73 - 134	11	30
1,2-Dichloropropane	50.0	57.0		ug/L		114	71 - 126	12	30
Ethylbenzene	50.0	52.3		ug/L		105	78 - 125	7	30
Ethylene Dibromide	50.0	58.4		ug/L		117	75 - 127	13	30
2-Hexanone	250	275		ug/L		110	52 - 149	9	30
Iodomethane	50.0	55.4		ug/L		111	50 - 150	14	50
Methylene Chloride	50.0	53.2		ug/L		106	79 - 124	6	30
4-Methyl-2-pentanone (MIBK)	250	280		ug/L		112	51 - 143	11	30
Styrene	50.0	55.4		ug/L		111	75 - 129	5	30

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

Lab Sample ID: LCSD 680-346308/4
Matrix: Water
Analysis Batch: 346308

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
1,1,1,2-Tetrachloroethane			50.0	53.8		ug/L		108	68 - 132	5	30
1,1,2,2-Tetrachloroethane			50.0	51.1		ug/L		102	71 - 127	5	30
Tetrachloroethene			50.0	58.0		ug/L		116	77 - 128	10	30
Toluene			50.0	56.5		ug/L		113	77 - 125	11	30
trans-1,4-Dichloro-2-butene			50.0	64.1		ug/L		128	50 - 150	1	50
trans-1,2-Dichloroethene			50.0	55.2		ug/L		110	78 - 130	13	30
trans-1,3-Dichloropropene			50.0	62.8		ug/L		126	72 - 127	11	50
1,1,1-Trichloroethane			50.0	61.3		ug/L		123	76 - 126	11	30
1,1,2-Trichloroethane			50.0	55.7		ug/L		111	69 - 127	8	30
Trichloroethene			50.0	55.1		ug/L		110	80 - 120	7	30
Trichlorofluoromethane			50.0	57.3		ug/L		115	66 - 144	10	30
1,2,3-Trichloropropane			50.0	56.5		ug/L		113	74 - 126	9	30
Vinyl acetate			100	90.9		ug/L		91	10 - 200	9	30
Vinyl chloride			50.0	47.7		ug/L		95	58 - 141	6	30
Xylenes, Total			100	105		ug/L		105	80 - 124	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*115*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 680-346586/8
Matrix: Water
Analysis Batch: 346586

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/29/14 13:55	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/29/14 13:55	1
Benzene	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/29/14 13:55	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/29/14 13:55	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/29/14 13:55	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/29/14 13:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/29/14 13:55	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/29/14 13:55	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/29/14 13:55	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/29/14 13:55	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/29/14 13:55	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/29/14 13:55	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 13:55	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/29/14 13:55	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/29/14 13:55	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/29/14 13:55	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/29/14 13:55	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/29/14 13:55	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/29/14 13:55	1

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

Lab Sample ID: MB 680-346586/8
Matrix: Water
Analysis Batch: 346586

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/29/14 13:55	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/29/14 13:55	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/29/14 13:55	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/29/14 13:55	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/29/14 13:55	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/29/14 13:55	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/29/14 13:55	1
Styrene	0.11	U	1.0	0.11	ug/L			08/29/14 13:55	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/29/14 13:55	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/29/14 13:55	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/29/14 13:55	1
Toluene	0.33	U	1.0	0.33	ug/L			08/29/14 13:55	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/29/14 13:55	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/29/14 13:55	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/29/14 13:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/29/14 13:55	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/29/14 13:55	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/29/14 13:55	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/29/14 13:55	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/29/14 13:55	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/29/14 13:55	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/29/14 13:55	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/29/14 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*08/29/14 13:55*	*1*

Lab Sample ID: LCS 680-346586/4
Matrix: Water
Analysis Batch: 346586

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	273		ug/L		109	39 - 162
Acrylonitrile	500	1690	J	ug/L		337	50 - 150
Benzene	50.0	57.3		ug/L		115	74 - 123
Bromoform	50.0	58.7		ug/L		117	60 - 134
Bromomethane	50.0	57.0		ug/L		114	10 - 171
2-Butanone (MEK)	250	286		ug/L		114	55 - 142
Carbon disulfide	50.0	52.2		ug/L		104	63 - 142
Carbon tetrachloride	50.0	51.1		ug/L		102	70 - 131
Chlorobenzene	50.0	56.6		ug/L		113	79 - 120
Chlorobromomethane	50.0	57.4		ug/L		115	60 - 136
Chlorodibromomethane	50.0	58.1		ug/L		116	63 - 134
Chloroethane	50.0	40.9		ug/L		82	47 - 148
Chloroform	50.0	57.0		ug/L		114	76 - 128
Chloromethane	50.0	46.1		ug/L		92	47 - 151
cis-1,2-Dichloroethene	50.0	55.1		ug/L		110	78 - 127

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

Lab Sample ID: LCS 680-346586/4
Matrix: Water
Analysis Batch: 346586

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	57.7		ug/L		115	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	56.3		ug/L		113	57 - 126
Dibromomethane	50.0	54.4		ug/L		109	75 - 122
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	77 - 124
1,4-Dichlorobenzene	50.0	55.6		ug/L		111	76 - 124
Dichlorobromomethane	50.0	58.1		ug/L		116	72 - 129
1,1-Dichloroethane	50.0	51.9		ug/L		104	69 - 132
1,2-Dichloroethane	50.0	55.0		ug/L		110	75 - 120
1,1-Dichloroethene	50.0	53.4		ug/L		107	73 - 134
1,2-Dichloropropane	50.0	55.5		ug/L		111	71 - 126
Ethylbenzene	50.0	58.9		ug/L		118	78 - 125
Ethylene Dibromide	50.0	55.9		ug/L		112	75 - 127
2-Hexanone	250	285		ug/L		114	52 - 149
Iodomethane	50.0	52.6		ug/L		105	50 - 150
Methylene Chloride	50.0	58.7		ug/L		117	79 - 124
4-Methyl-2-pentanone (MIBK)	250	277		ug/L		111	51 - 143
Styrene	50.0	57.3		ug/L		115	75 - 129
1,1,1,2-Tetrachloroethane	50.0	58.1		ug/L		116	68 - 132
1,1,2,2-Tetrachloroethane	50.0	55.8		ug/L		112	71 - 127
Tetrachloroethene	50.0	52.2		ug/L		104	77 - 128
Toluene	50.0	57.7		ug/L		115	77 - 125
trans-1,4-Dichloro-2-butene	50.0	59.0		ug/L		118	50 - 150
trans-1,2-Dichloroethene	50.0	58.1		ug/L		116	78 - 130
trans-1,3-Dichloropropene	50.0	56.1		ug/L		112	72 - 127
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	76 - 126
1,1,2-Trichloroethane	50.0	55.5		ug/L		111	69 - 127
Trichloroethene	50.0	52.8		ug/L		106	80 - 120
Trichlorofluoromethane	50.0	56.5		ug/L		113	66 - 144
1,2,3-Trichloropropane	50.0	57.6		ug/L		115	74 - 126
Vinyl acetate	100	101		ug/L		101	10 - 200
Vinyl chloride	50.0	43.7		ug/L		87	58 - 141
Xylenes, Total	100	116		ug/L		116	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*116*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-346586/5
Matrix: Water
Analysis Batch: 346586

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	239		ug/L		96	39 - 162	13	50
Acrylonitrile	500	1330	J	ug/L		267	50 - 150	23	50
Benzene	50.0	46.1		ug/L		92	74 - 123	22	30
Bromoform	50.0	47.8		ug/L		96	60 - 134	20	30
Bromomethane	50.0	45.0		ug/L		90	10 - 171	23	50
2-Butanone (MEK)	250	213		ug/L		85	55 - 142	29	30

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

Lab Sample ID: LCSD 680-346586/5
Matrix: Water
Analysis Batch: 346586

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
Carbon disulfide			50.0	46.0		ug/L		92	63 - 142	13	30
Carbon tetrachloride			50.0	41.4		ug/L		83	70 - 131	21	30
Chlorobenzene			50.0	46.6		ug/L		93	79 - 120	19	30
Chlorobromomethane			50.0	47.5		ug/L		95	60 - 136	19	30
Chlorodibromomethane			50.0	46.8		ug/L		94	63 - 134	22	50
Chloroethane			50.0	33.0		ug/L		66	47 - 148	21	40
Chloroform			50.0	46.5		ug/L		93	76 - 128	20	30
Chloromethane			50.0	36.8		ug/L		74	47 - 151	22	30
cis-1,2-Dichloroethene			50.0	44.3		ug/L		89	78 - 127	22	30
cis-1,3-Dichloropropene			50.0	46.5		ug/L		93	73 - 128	21	30
1,2-Dibromo-3-Chloropropane			50.0	47.1		ug/L		94	57 - 126	18	50
Dibromomethane			50.0	44.7		ug/L		89	75 - 122	20	30
1,2-Dichlorobenzene			50.0	46.1		ug/L		92	77 - 124	19	30
1,4-Dichlorobenzene			50.0	45.6		ug/L		91	76 - 124	20	30
Dichlorobromomethane			50.0	46.5		ug/L		93	72 - 129	22	30
1,1-Dichloroethane			50.0	43.9		ug/L		88	69 - 132	17	30
1,2-Dichloroethane			50.0	44.3		ug/L		89	75 - 120	22	30
1,1-Dichloroethene			50.0	45.0		ug/L		90	73 - 134	17	30
1,2-Dichloropropane			50.0	45.7		ug/L		91	71 - 126	19	30
Ethylbenzene			50.0	47.4		ug/L		95	78 - 125	22	30
Ethylene Dibromide			50.0	45.7		ug/L		91	75 - 127	20	30
2-Hexanone			250	232		ug/L		93	52 - 149	20	30
Iodomethane			50.0	45.7		ug/L		91	50 - 150	14	50
Methylene Chloride			50.0	51.1		ug/L		102	79 - 124	14	30
4-Methyl-2-pentanone (MIBK)			250	225		ug/L		90	51 - 143	21	30
Styrene			50.0	46.4		ug/L		93	75 - 129	21	30
1,1,1,2-Tetrachloroethane			50.0	46.4		ug/L		93	68 - 132	22	30
1,1,2,2-Tetrachloroethane			50.0	45.3		ug/L		91	71 - 127	21	30
Tetrachloroethene			50.0	42.7		ug/L		85	77 - 128	20	30
Toluene			50.0	46.3		ug/L		93	77 - 125	22	30
trans-1,4-Dichloro-2-butene			50.0	47.9		ug/L		96	50 - 150	21	50
trans-1,2-Dichloroethene			50.0	47.1		ug/L		94	78 - 130	21	30
trans-1,3-Dichloropropene			50.0	45.2		ug/L		90	72 - 127	22	50
1,1,1-Trichloroethane			50.0	41.8		ug/L		84	76 - 126	20	30
1,1,2-Trichloroethane			50.0	45.7		ug/L		91	69 - 127	19	30
Trichloroethene			50.0	43.0		ug/L		86	80 - 120	20	30
Trichlorofluoromethane			50.0	46.7		ug/L		93	66 - 144	19	30
1,2,3-Trichloropropane			50.0	46.1		ug/L		92	74 - 126	22	30
Vinyl acetate			100	73.8	J	ug/L		74	10 - 200	32	30
Vinyl chloride			50.0	38.8		ug/L		78	58 - 141	12	30
Xylenes, Total			100	94.0		ug/L		94	80 - 124	21	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*

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

Lab Sample ID: MB 680-346741/8
Matrix: Water
Analysis Batch: 346741

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	25	5.0	ug/L			08/30/14 11:42	1
Acrylonitrile	7.2	U	20	7.2	ug/L			08/30/14 11:42	1
Benzene	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
Bromoform	0.50	U	1.0	0.50	ug/L			08/30/14 11:42	1
Bromomethane	2.0	U	5.0	2.0	ug/L			08/30/14 11:42	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			08/30/14 11:42	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			08/30/14 11:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			08/30/14 11:42	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			08/30/14 11:42	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			08/30/14 11:42	1
Chloroethane	2.0	U	5.0	2.0	ug/L			08/30/14 11:42	1
Chloroform	0.14	U	1.0	0.14	ug/L			08/30/14 11:42	1
Chloromethane	0.33	U	1.0	0.33	ug/L			08/30/14 11:42	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			08/30/14 11:42	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			08/30/14 11:42	1
1,2-Dibromo-3-Chloropropane	0.44	U	5.0	0.44	ug/L			08/30/14 11:42	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/30/14 11:42	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			08/30/14 11:42	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			08/30/14 11:42	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			08/30/14 11:42	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			08/30/14 11:42	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			08/30/14 11:42	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			08/30/14 11:42	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/30/14 11:42	1
Iodomethane	1.0	U	5.0	1.0	ug/L			08/30/14 11:42	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			08/30/14 11:42	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			08/30/14 11:42	1
Styrene	0.11	U	1.0	0.11	ug/L			08/30/14 11:42	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			08/30/14 11:42	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			08/30/14 11:42	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			08/30/14 11:42	1
Toluene	0.33	U	1.0	0.33	ug/L			08/30/14 11:42	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			08/30/14 11:42	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			08/30/14 11:42	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			08/30/14 11:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			08/30/14 11:42	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			08/30/14 11:42	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			08/30/14 11:42	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			08/30/14 11:42	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			08/30/14 11:42	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			08/30/14 11:42	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			08/30/14 11:42	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			08/30/14 11:42	1

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

Lab Sample ID: MB 680-346741/8
Matrix: Water
Analysis Batch: 346741

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		08/30/14 11:42	1

Lab Sample ID: LCS 680-346741/3
Matrix: Water
Analysis Batch: 346741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	285		ug/L		114	39 - 162
Acrylonitrile	500	504		ug/L		101	50 - 150
Benzene	50.0	48.8		ug/L		98	74 - 123
Bromoform	50.0	54.0		ug/L		108	60 - 134
Bromomethane	50.0	32.3		ug/L		65	10 - 171
2-Butanone (MEK)	250	237		ug/L		95	55 - 142
Carbon disulfide	50.0	47.2		ug/L		94	63 - 142
Carbon tetrachloride	50.0	52.6		ug/L		105	70 - 131
Chlorobenzene	50.0	50.9		ug/L		102	79 - 120
Chlorobromomethane	50.0	47.8		ug/L		96	60 - 136
Chlorodibromomethane	50.0	50.8		ug/L		102	63 - 134
Chloroethane	50.0	47.9		ug/L		96	47 - 148
Chloroform	50.0	49.9		ug/L		100	76 - 128
Chloromethane	50.0	45.8		ug/L		92	47 - 151
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	78 - 127
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	45.8		ug/L		92	57 - 126
Dibromomethane	50.0	50.0		ug/L		100	75 - 122
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	77 - 124
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	76 - 124
Dichlorobromomethane	50.0	49.6		ug/L		99	72 - 129
1,1-Dichloroethane	50.0	49.3		ug/L		99	69 - 132
1,2-Dichloroethane	50.0	51.2		ug/L		102	75 - 120
1,1-Dichloroethene	50.0	51.1		ug/L		102	73 - 134
1,2-Dichloropropane	50.0	49.8		ug/L		100	71 - 126
Ethylbenzene	50.0	50.3		ug/L		101	78 - 125
Ethylene Dibromide	50.0	48.6		ug/L		97	75 - 127
2-Hexanone	250	231		ug/L		92	52 - 149
Iodomethane	50.0	34.3		ug/L		69	50 - 150
Methylene Chloride	50.0	47.7		ug/L		95	79 - 124
4-Methyl-2-pentanone (MIBK)	250	231		ug/L		92	51 - 143
Styrene	50.0	52.0		ug/L		104	75 - 129
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/L		109	68 - 132
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/L		97	71 - 127
Tetrachloroethene	50.0	49.2		ug/L		98	77 - 128
Toluene	50.0	48.0		ug/L		96	77 - 125
trans-1,4-Dichloro-2-butene	50.0	61.3		ug/L		123	50 - 150
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 130
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	72 - 127
1,1,1-Trichloroethane	50.0	55.3		ug/L		111	76 - 126
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	69 - 127

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

Lab Sample ID: LCS 680-346741/3
Matrix: Water
Analysis Batch: 346741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	53.4		ug/L		107	66 - 144
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	74 - 126
Vinyl acetate	100	84.8		ug/L		85	10 - 200
Vinyl chloride	50.0	48.2		ug/L		96	58 - 141
Xylenes, Total	100	102		ug/L		102	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-346741/4
Matrix: Water
Analysis Batch: 346741

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	301		ug/L		120	39 - 162	5	50
Acrylonitrile	500	492		ug/L		98	50 - 150	3	50
Benzene	50.0	46.2		ug/L		92	74 - 123	6	30
Bromoform	50.0	48.7		ug/L		97	60 - 134	10	30
Bromomethane	50.0	35.3		ug/L		71	10 - 171	9	50
2-Butanone (MEK)	250	261		ug/L		105	55 - 142	10	30
Carbon disulfide	50.0	45.5		ug/L		91	63 - 142	4	30
Carbon tetrachloride	50.0	50.1		ug/L		100	70 - 131	5	30
Chlorobenzene	50.0	48.3		ug/L		97	79 - 120	5	30
Chlorobromomethane	50.0	47.1		ug/L		94	60 - 136	2	30
Chlorodibromomethane	50.0	47.3		ug/L		95	63 - 134	7	50
Chloroethane	50.0	43.9		ug/L		88	47 - 148	9	40
Chloroform	50.0	49.5		ug/L		99	76 - 128	1	30
Chloromethane	50.0	44.5		ug/L		89	47 - 151	3	30
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	78 - 127	1	30
cis-1,3-Dichloropropene	50.0	45.2		ug/L		90	73 - 128	8	30
1,2-Dibromo-3-Chloropropane	50.0	51.5		ug/L		103	57 - 126	12	50
Dibromomethane	50.0	48.2		ug/L		96	75 - 122	4	30
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	77 - 124	0	30
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	76 - 124	3	30
Dichlorobromomethane	50.0	48.4		ug/L		97	72 - 129	2	30
1,1-Dichloroethane	50.0	49.8		ug/L		100	69 - 132	1	30
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 120	4	30
1,1-Dichloroethene	50.0	47.8		ug/L		96	73 - 134	7	30
1,2-Dichloropropane	50.0	44.9		ug/L		90	71 - 126	10	30
Ethylbenzene	50.0	48.3		ug/L		97	78 - 125	4	30
Ethylene Dibromide	50.0	46.7		ug/L		93	75 - 127	4	30
2-Hexanone	250	230		ug/L		92	52 - 149	1	30
Iodomethane	50.0	37.3		ug/L		75	50 - 150	8	50
Methylene Chloride	50.0	46.7		ug/L		93	79 - 124	2	30
4-Methyl-2-pentanone (MIBK)	250	232		ug/L		93	51 - 143	1	30
Styrene	50.0	49.3		ug/L		99	75 - 129	5	30

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

Lab Sample ID: LCSD 680-346741/4
Matrix: Water
Analysis Batch: 346741

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
1,1,1,2-Tetrachloroethane			50.0	49.6		ug/L		99	68 - 132	9	30
1,1,2,2-Tetrachloroethane			50.0	46.5		ug/L		93	71 - 127	4	30
Tetrachloroethene			50.0	47.4		ug/L		95	77 - 128	4	30
Toluene			50.0	45.7		ug/L		91	77 - 125	5	30
trans-1,4-Dichloro-2-butene			50.0	58.4		ug/L		117	50 - 150	5	50
trans-1,2-Dichloroethene			50.0	48.7		ug/L		97	78 - 130	0	30
trans-1,3-Dichloropropene			50.0	48.9		ug/L		98	72 - 127	8	50
1,1,1-Trichloroethane			50.0	54.3		ug/L		109	76 - 126	2	30
1,1,2-Trichloroethane			50.0	45.0		ug/L		90	69 - 127	10	30
Trichloroethene			50.0	46.1		ug/L		92	80 - 120	6	30
Trichlorofluoromethane			50.0	51.5		ug/L		103	66 - 144	4	30
1,2,3-Trichloropropane			50.0	51.4		ug/L		103	74 - 126	2	30
Vinyl acetate			100	79.3		ug/L		79	10 - 200	7	30
Vinyl chloride			50.0	45.8		ug/L		92	58 - 141	5	30
Xylenes, Total			100	95.7		ug/L		96	80 - 124	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 680-345210/3-A
Matrix: Water
Analysis Batch: 345364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345210

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		08/21/14 14:43	08/22/14 02:31	1
EDB	0.0022	U	0.020	0.0022	ug/L		08/21/14 14:43	08/22/14 02:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*112*		*60 - 144*	*08/21/14 14:43*	*08/22/14 02:31*	*1*

Lab Sample ID: LCS 680-345210/4-A
Matrix: Water
Analysis Batch: 345364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP			0.100	0.103		ug/L		103	70 - 148
EDB			0.100	0.100		ug/L		100	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*116*		*60 - 144*

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

Lab Sample ID: LCSD 680-345210/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345364 — **Prep Batch: 345210**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.100	0.107		ug/L		107	70 - 148	4	30
EDB			0.100	0.101		ug/L		101	66 - 126	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*114*		*60 - 144*

Lab Sample ID: MB 680-345698/10-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 346192 — **Prep Batch: 345698**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		08/27/14 09:53	08/27/14 17:15	1
EDB	0.0022	U	0.020	0.0022	ug/L		08/27/14 09:53	08/27/14 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*107*		*60 - 144*	*08/27/14 09:53*	*08/27/14 17:15*	*1*

Lab Sample ID: LCS 680-345698/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 346192 — **Prep Batch: 345698**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP			0.100	0.0973		ug/L		97	70 - 148
EDB			0.100	0.0974		ug/L		97	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*108*		*60 - 144*

Lab Sample ID: LCSD 680-345698/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 346192 — **Prep Batch: 345698**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.100	0.0964		ug/L		96	70 - 148	1	30
EDB			0.100	0.0930		ug/L		93	66 - 126	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*106*		*60 - 144*

Lab Sample ID: 640-48951-6 MS — **Client Sample ID: FIELD BLANK 01 48951**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 346192 — **Prep Batch: 345698**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0055	U	0.106	0.119		ug/L		112	70 - 148
EDB	0.0024	U	0.106	0.102		ug/L		97	66 - 126

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

Lab Sample ID: 640-48951-6 MS
Matrix: Water
Analysis Batch: 346192

Client Sample ID: FIELD BLANK 01 48951
Prep Type: Total/NA
Prep Batch: 345698

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	*108*		*60 - 144*

Lab Sample ID: 640-48951-6 MSD
Matrix: Water
Analysis Batch: 346192

Client Sample ID: FIELD BLANK 01 48951
Prep Type: Total/NA
Prep Batch: 345698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0055	U	0.105	0.110		ug/L		104	70 - 148	8	30
EDB	0.0024	U	0.105	0.0977		ug/L		93	66 - 126	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Pentachloroethane	*106*		*60 - 144*

Lab Sample ID: 640-48951-7 MS
Matrix: Water
Analysis Batch: 346192

Client Sample ID: MWB32S
Prep Type: Total/NA
Prep Batch: 345698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0053	U	0.103	0.128		ug/L		124	70 - 148
EDB	0.0023	U	0.103	0.124		ug/L		120	66 - 126

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	*136*		*60 - 144*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-347113/5
Matrix: Water
Analysis Batch: 347113

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			09/03/14 11:18	1

Lab Sample ID: LCS 680-347113/6
Matrix: Water
Analysis Batch: 347113

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	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-347113/7
Matrix: Water
Analysis Batch: 347113

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: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 640-48933-4 MS
Matrix: Water
Analysis Batch: 347113

Client Sample ID: MWB22S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		10.0	22.3		mg/L		101	80 - 120

Lab Sample ID: 640-48933-4 MSD
Matrix: Water
Analysis Batch: 347113

Client Sample ID: MWB22S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		10.0	22.4		mg/L		102	80 - 120	0	30

Lab Sample ID: MB 680-347223/32
Matrix: Water
Analysis Batch: 347223

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			09/03/14 20:10	1

Lab Sample ID: LCS 680-347223/33
Matrix: Water
Analysis Batch: 347223

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 680-347223/34
Matrix: Water
Analysis Batch: 347223

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

Lab Sample ID: 640-48933-9 MS
Matrix: Water
Analysis Batch: 347223

Client Sample ID: MWB29I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.1		10.0	16.2		mg/L		102	80 - 120

Lab Sample ID: 640-48933-9 MSD
Matrix: Water
Analysis Batch: 347223

Client Sample ID: MWB29I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.1		10.0	16.2		mg/L		101	80 - 120	0	30

Lab Sample ID: 640-48951-7 MS
Matrix: Water
Analysis Batch: 347223

Client Sample ID: MWB32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	27		10.0	37.0		mg/L		99	80 - 120

Lab Sample ID: 640-48951-7 MSD — **Client Sample ID: MWB32S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27		10.0	37.1		mg/L		100	80 - 120	0	30

Lab Sample ID: MB 680-347224/58 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347224

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			09/04/14 02:25	1

Lab Sample ID: LCS 680-347224/59 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347224

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 680-347224/60 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347224

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

Lab Sample ID: 640-48951-14 MS — **Client Sample ID: MWB21S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.0		10.0	16.2		mg/L		102	80 - 120

Lab Sample ID: 640-48951-14 MSD — **Client Sample ID: MWB21S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.0		10.0	16.3		mg/L		103	80 - 120	1	30

Lab Sample ID: MB 680-347297/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347297

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			09/04/14 09:48	1

Lab Sample ID: LCS 680-347297/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.2		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-347297/7
Matrix: Water
Analysis Batch: 347297

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	10.2		mg/L		102	90 - 110	0	30

Lab Sample ID: 640-48951-9 MS
Matrix: Water
Analysis Batch: 347297

Client Sample ID: MWB34S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	63		20.0	79.7		mg/L		85	80 - 120

Lab Sample ID: 640-48951-9 MSD
Matrix: Water
Analysis Batch: 347297

Client Sample ID: MWB34S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	63		20.0	83.0		mg/L		102	80 - 120	4	30

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

Lab Sample ID: MB 400-228490/1-A
Matrix: Water
Analysis Batch: 228555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228490

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000281	I	0.00050	0.00020	ug/L		09/02/14 09:15	09/02/14 09:36	1

Lab Sample ID: LCS 400-228490/2-A
Matrix: Water
Analysis Batch: 228555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			0.00500	0.00453		ug/L		91	79 - 121

Lab Sample ID: LCSD 400-228490/3-A
Matrix: Water
Analysis Batch: 228555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 228490

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.00500	0.00446		ug/L		89	79 - 121	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-345416/1-A
Matrix: Water
Analysis Batch: 345970

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/22/14 09:59	08/25/14 13:43	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/22/14 09:59	08/25/14 13:43	1
Barium	1.3	U	5.0	1.3	ug/L		08/22/14 09:59	08/25/14 13:43	1

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

Lab Sample ID: MB 680-345416/1-A
Matrix: Water
Analysis Batch: 345970

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.25	U	0.50	0.25	ug/L		08/22/14 09:59	08/25/14 13:43	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/22/14 09:59	08/25/14 13:43	1
Chromium	2.5	U	5.0	2.5	ug/L		08/22/14 09:59	08/25/14 13:43	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/22/14 09:59	08/25/14 13:43	1
Copper	1.1	U	5.0	1.1	ug/L		08/22/14 09:59	08/25/14 13:43	1
Iron	33	U	100	33	ug/L		08/22/14 09:59	08/25/14 13:43	1
Lead	0.20	U	1.5	0.20	ug/L		08/22/14 09:59	08/25/14 13:43	1
Nickel	2.0	U	5.0	2.0	ug/L		08/22/14 09:59	08/25/14 13:43	1
Selenium	1.0	U	2.5	1.0	ug/L		08/22/14 09:59	08/25/14 13:43	1
Sodium	0.25	U	0.50	0.25	mg/L		08/22/14 09:59	08/25/14 13:43	1
Silver	0.25	U	1.0	0.25	ug/L		08/22/14 09:59	08/25/14 13:43	1
Thallium	0.50	U	1.0	0.50	ug/L		08/22/14 09:59	08/25/14 13:43	1
Vanadium	3.8	U	10	3.8	ug/L		08/22/14 09:59	08/25/14 13:43	1
Zinc	8.3	U	20	8.3	ug/L		08/22/14 09:59	08/25/14 13:43	1

Lab Sample ID: LCS 680-345416/2-A
Matrix: Water
Analysis Batch: 345970

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.6		ug/L		101	75 - 125
Arsenic	100	103		ug/L		103	75 - 125
Barium	100	98.7		ug/L		99	75 - 125
Beryllium	50.0	50.4		ug/L		101	75 - 125
Cadmium	50.0	50.3		ug/L		101	75 - 125
Chromium	100	102		ug/L		102	75 - 125
Cobalt	50.0	52.1		ug/L		104	75 - 125
Copper	100	102		ug/L		102	75 - 125
Iron	5000	5530		ug/L		111	75 - 125
Lead	50.0	49.6		ug/L		99	75 - 125
Nickel	100	106		ug/L		106	75 - 125
Selenium	100	105		ug/L		105	75 - 125
Sodium	5.00	5.27		mg/L		105	75 - 125
Silver	50.0	50.7		ug/L		101	75 - 125
Thallium	40.0	38.9		ug/L		97	75 - 125
Vanadium	100	100		ug/L		100	75 - 125
Zinc	100	102		ug/L		102	75 - 125

Lab Sample ID: 640-48933-9 MS
Matrix: Water
Analysis Batch: 345970

Client Sample ID: MWB29I
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3		50.0	53.9		ug/L		108	75 - 125
Arsenic	1.3		100	109		ug/L		109	75 - 125
Barium	43		100	149		ug/L		105	75 - 125
Beryllium	0.25		50.0	53.6		ug/L		107	75 - 125
Cadmium	0.095		50.0	53.3		ug/L		107	75 - 125
Chromium	2.5		100	107		ug/L		107	75 - 125

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

Lab Sample ID: 640-48933-9 MS
Matrix: Water
Analysis Batch: 345970

Client Sample ID: MWB29I
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.15		50.0	54.0		ug/L		108	75 - 125
Copper	1.1		100	106		ug/L		106	75 - 125
Iron	510		5000	6160		ug/L		113	75 - 125
Lead	0.64		50.0	53.6		ug/L		106	75 - 125
Nickel	2.0		100	109		ug/L		109	75 - 125
Selenium	1.0		100	107		ug/L		107	75 - 125
Sodium	4.3		5.00	9.25		mg/L		98	75 - 125
Silver	0.25		50.0	53.3		ug/L		107	75 - 125
Thallium	0.50		40.0	41.5		ug/L		104	75 - 125
Vanadium	3.8		100	105		ug/L		105	75 - 125
Zinc	8.3		100	106		ug/L		106	75 - 125

Lab Sample ID: 640-48933-9 MSD
Matrix: Water
Analysis Batch: 345970

Client Sample ID: MWB29I
Prep Type: Total Recoverable
Prep Batch: 345416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3		50.0	53.4		ug/L		107	75 - 125	1	20
Arsenic	1.3		100	108		ug/L		108	75 - 125	1	20
Barium	43		100	149		ug/L		106	75 - 125	0	20
Beryllium	0.25		50.0	54.0		ug/L		108	75 - 125	1	20
Cadmium	0.095		50.0	53.5		ug/L		107	75 - 125	0	20
Chromium	2.5		100	107		ug/L		107	75 - 125	0	20
Cobalt	0.15		50.0	54.9		ug/L		110	75 - 125	2	20
Copper	1.1		100	110		ug/L		110	75 - 125	3	20
Iron	510		5000	6320		ug/L		116	75 - 125	3	20
Lead	0.64		50.0	54.2		ug/L		107	75 - 125	1	20
Nickel	2.0		100	111		ug/L		111	75 - 125	2	20
Selenium	1.0		100	109		ug/L		109	75 - 125	3	20
Sodium	4.3		5.00	9.52		mg/L		104	75 - 125	3	20
Silver	0.25		50.0	52.9		ug/L		106	75 - 125	1	20
Thallium	0.50		40.0	41.8		ug/L		105	75 - 125	1	20
Vanadium	3.8		100	106		ug/L		106	75 - 125	1	20
Zinc	8.3		100	107		ug/L		107	75 - 125	1	20

Lab Sample ID: MB 680-345742/1-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345742

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 13:12	08/29/14 05:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 13:12	08/29/14 05:12	1
Barium	1.3	U	5.0	1.3	ug/L		08/25/14 13:12	08/29/14 05:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 13:12	08/29/14 05:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 13:12	08/29/14 05:12	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 13:12	08/29/14 05:12	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/25/14 13:12	08/29/14 05:12	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 13:12	08/29/14 05:12	1
Iron	33	U	100	33	ug/L		08/25/14 13:12	08/29/14 05:12	1

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

Lab Sample ID: MB 680-345742/1-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345742

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20	U	1.5	0.20	ug/L		08/25/14 13:12	08/29/14 05:12	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 13:12	08/29/14 05:12	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 13:12	08/29/14 05:12	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 13:12	08/29/14 05:12	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 13:12	08/29/14 05:12	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 13:12	08/29/14 05:12	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 13:12	08/29/14 05:12	1

Lab Sample ID: LCS 680-345742/2-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.2		ug/L		98	75 - 125
Arsenic	100	102		ug/L		102	75 - 125
Barium	100	98.1		ug/L		98	75 - 125
Beryllium	50.0	50.3		ug/L		101	75 - 125
Cadmium	50.0	50.0		ug/L		100	75 - 125
Calcium	5.00	5.26		mg/L		105	75 - 125
Chromium	100	101		ug/L		101	75 - 125
Cobalt	50.0	51.3		ug/L		103	75 - 125
Copper	100	101		ug/L		101	75 - 125
Iron	5000	5240		ug/L		105	75 - 125
Lead	50.0	49.8		ug/L		100	75 - 125
Magnesium	5.00	5.17		mg/L		103	75 - 125
Nickel	100	104		ug/L		104	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Silver	50.0	50.1		ug/L		100	75 - 125
Thallium	40.0	39.9		ug/L		100	75 - 125
Vanadium	100	99.4		ug/L		99	75 - 125
Zinc	100	97.7		ug/L		98	75 - 125

Lab Sample ID: MB 680-345770/1-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345770

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/25/14 15:12	08/29/14 00:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/25/14 15:12	08/29/14 00:12	1
Barium	1.3	U	5.0	1.3	ug/L		08/25/14 15:12	08/29/14 00:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/25/14 15:12	08/29/14 00:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/25/14 15:12	08/29/14 00:12	1
Chromium	2.5	U	5.0	2.5	ug/L		08/25/14 15:12	08/29/14 00:12	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/25/14 15:12	08/29/14 00:12	1
Copper	1.1	U	5.0	1.1	ug/L		08/25/14 15:12	08/29/14 00:12	1
Iron	33	U	100	33	ug/L		08/25/14 15:12	08/29/14 00:12	1
Lead	0.20	U	1.5	0.20	ug/L		08/25/14 15:12	08/29/14 00:12	1
Nickel	2.0	U	5.0	2.0	ug/L		08/25/14 15:12	08/29/14 00:12	1
Selenium	1.0	U	2.5	1.0	ug/L		08/25/14 15:12	08/29/14 00:12	1

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

Lab Sample ID: MB 680-345770/1-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345770

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.25	U	0.50	0.25	mg/L		08/25/14 15:12	08/29/14 00:12	1
Silver	0.25	U	1.0	0.25	ug/L		08/25/14 15:12	08/29/14 00:12	1
Thallium	0.50	U	1.0	0.50	ug/L		08/25/14 15:12	08/29/14 00:12	1
Vanadium	3.8	U	10	3.8	ug/L		08/25/14 15:12	08/29/14 00:12	1
Zinc	8.3	U	20	8.3	ug/L		08/25/14 15:12	08/29/14 00:12	1

Lab Sample ID: LCS 680-345770/2-A
Matrix: Water
Analysis Batch: 346649

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.9		ug/L		102	75 - 125
Arsenic	100	103		ug/L		103	75 - 125
Barium	100	103		ug/L		103	75 - 125
Beryllium	50.0	53.0		ug/L		106	75 - 125
Cadmium	50.0	51.8		ug/L		104	75 - 125
Chromium	100	107		ug/L		107	75 - 125
Cobalt	50.0	54.5		ug/L		109	75 - 125
Copper	100	105		ug/L		105	75 - 125
Iron	5000	5440		ug/L		109	75 - 125
Lead	50.0	52.6		ug/L		105	75 - 125
Nickel	100	109		ug/L		109	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Sodium	5.00	5.37		mg/L		107	75 - 125
Silver	50.0	53.1		ug/L		106	75 - 125
Thallium	40.0	42.0		ug/L		105	75 - 125
Vanadium	100	106		ug/L		106	75 - 125
Zinc	100	99.7		ug/L		100	75 - 125

Lab Sample ID: MB 680-345843/1-A
Matrix: Water
Analysis Batch: 346224

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345843

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Antimony	2.3	U	5.0	2.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Barium	1.3	U	5.0	1.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Barium	1.3	U	5.0	1.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/26/14 07:47	08/26/14 16:53	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/26/14 07:47	08/26/14 16:53	1
Chromium	2.5	U	5.0	2.5	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/26/14 07:47	08/26/14 16:53	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Cobalt	0.15	U	0.50	0.15	ug/L		08/26/14 07:47	08/26/14 16:53	1
Copper	1.1	U	5.0	1.1	ug/L		08/26/14 07:47	08/26/14 16:53	1

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

Lab Sample ID: MB 680-345843/1-A
Matrix: Water
Analysis Batch: 346224

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345843

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Iron	33	U	100	33	ug/L		08/26/14 07:47	08/26/14 16:53	1
Iron	33	U	100	33	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		08/26/14 07:47	08/26/14 16:53	1
Lead	0.20	U	1.5	0.20	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/26/14 07:47	08/26/14 16:53	1
Nickel	2.0	U	5.0	2.0	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Sodium	0.25	U	0.50	0.25	mg/L		08/26/14 07:47	08/26/14 16:53	1
Selenium	1.0	U	2.5	1.0	ug/L		08/26/14 07:47	08/26/14 16:53	1
Sodium	0.25	U	0.50	0.25	mg/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 16:53	1
Silver	0.25	U	1.0	0.25	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 16:53	1
Thallium	0.50	U	1.0	0.50	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/26/14 07:47	08/26/14 16:53	1
Vanadium	3.8	U	10	3.8	ug/L		08/26/14 07:47	08/26/14 16:53	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		08/26/14 07:47	08/26/14 16:53	1
Zinc	8.3	U	20	8.3	ug/L		08/26/14 07:47	08/26/14 16:53	1

Lab Sample ID: LCS 680-345843/2-A
Matrix: Water
Analysis Batch: 346224

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.1		ug/L		94	75 - 125
Dissolved Antimony	50.0	47.1		ug/L		94	75 - 125
Arsenic	100	99.0		ug/L		99	75 - 125
Dissolved Arsenic	100	99.0		ug/L		99	75 - 125
Barium	100	93.5		ug/L		93	75 - 125
Dissolved Barium	100	93.5		ug/L		93	75 - 125
Beryllium	50.0	48.0		ug/L		96	75 - 125
Dissolved Beryllium	50.0	48.0		ug/L		96	75 - 125
Cadmium	50.0	47.3		ug/L		95	75 - 125
Dissolved Cadmium	50.0	47.3		ug/L		95	75 - 125
Chromium	100	93.2		ug/L		93	75 - 125
Dissolved Chromium	100	93.2		ug/L		93	75 - 125
Cobalt	50.0	49.2		ug/L		98	75 - 125
Dissolved Cobalt	50.0	49.2		ug/L		98	75 - 125
Copper	100	93.9		ug/L		94	75 - 125
Dissolved Copper	100	93.9		ug/L		94	75 - 125
Dissolved Iron	5000	5290		ug/L		106	75 - 125
Iron	5000	5290		ug/L		106	75 - 125
Dissolved Lead	50.0	46.4		ug/L		93	75 - 125
Lead	50.0	46.4		ug/L		93	75 - 125
Dissolved Nickel	100	97.9		ug/L		98	75 - 125
Nickel	100	97.9		ug/L		98	75 - 125
Dissolved Selenium	100	101		ug/L		101	75 - 125

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

Lab Sample ID: LCS 680-345843/2-A
Matrix: Water
Analysis Batch: 346224

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5.00	4.93		mg/L		99	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Sodium	5.00	4.93		mg/L		99	75 - 125
Dissolved Silver	50.0	48.0		ug/L		96	75 - 125
Silver	50.0	48.0		ug/L		96	75 - 125
Dissolved Thallium	40.0	36.2		ug/L		90	75 - 125
Thallium	40.0	36.2		ug/L		90	75 - 125
Dissolved Vanadium	100	92.8		ug/L		93	75 - 125
Vanadium	100	92.8		ug/L		93	75 - 125
Dissolved Zinc	100	94.6		ug/L		95	75 - 125
Zinc	100	94.6		ug/L		95	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-345254/1-A
Matrix: Water
Analysis Batch: 345449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345254

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/21/14 13:41	08/22/14 09:20	1

Lab Sample ID: LCS 680-345254/2-A
Matrix: Water
Analysis Batch: 345449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.49		ug/L		100	80 - 120

Lab Sample ID: 640-48933-1 MS
Matrix: Water
Analysis Batch: 345449

Client Sample ID: MWB29S
Prep Type: Total/NA
Prep Batch: 345254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 640-48933-1 MSD
Matrix: Water
Analysis Batch: 345449

Client Sample ID: MWB29S
Prep Type: Total/NA
Prep Batch: 345254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.47	J	ug/L		147	80 - 120	35	20

Lab Sample ID: MB 680-345643/13-A
Matrix: Water
Analysis Batch: 345923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345643

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 08:40	08/25/14 16:10	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-345643/14-A
Matrix: Water
Analysis Batch: 345923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.43		ug/L		97	80 - 120

Lab Sample ID: MB 680-345653/1-A
Matrix: Water
Analysis Batch: 345923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345653

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		08/25/14 09:22	08/25/14 17:20	1

Lab Sample ID: LCS 680-345653/2-A
Matrix: Water
Analysis Batch: 345923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.50		ug/L		100	80 - 120

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

Lab Sample ID: MB 680-347388/1
Matrix: Water
Analysis Batch: 347388

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			08/29/14 05:12	1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-346189/1
Matrix: Water
Analysis Batch: 346189

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	5.0	U	5.0	5.0	mg/L			08/27/14 13:22	1

Lab Sample ID: LCS 680-346189/2
Matrix: Water
Analysis Batch: 346189

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	20.5		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-346189/3
Matrix: Water
Analysis Batch: 346189

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	20.5		mg/L		103	80 - 120	0	25

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-345309/1
Matrix: Water
Analysis Batch: 345309

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			08/21/14 15:06	1

Lab Sample ID: LCS 680-345309/2
Matrix: Water
Analysis Batch: 345309

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	109	123		mg/L		113	80 - 120

Lab Sample ID: LCSD 680-345309/3
Matrix: Water
Analysis Batch: 345309

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	109	116		mg/L		106	80 - 120	6	25

Lab Sample ID: 640-48933-4 DU
Matrix: Water
Analysis Batch: 345309

Client Sample ID: MWB22S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		180		mg/L		5	25

Lab Sample ID: MB 680-345605/1
Matrix: Water
Analysis Batch: 345605

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			08/24/14 14:00	1

Lab Sample ID: LCS 680-345605/2
Matrix: Water
Analysis Batch: 345605

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	109	109		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-345605/3
Matrix: Water
Analysis Batch: 345605

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	109	111		mg/L		102	80 - 120	2	25

Lab Sample ID: 640-48932-1 DU
Matrix: Water
Analysis Batch: 345605

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	180		196		mg/L		9	25

Lab Sample ID: 640-48932-2 DU
Matrix: Water
Analysis Batch: 345605

Client Sample ID: SW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		278		mg/L		3	25

Lab Sample ID: MB 680-345934/1
Matrix: Water
Analysis Batch: 345934

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			08/26/14 12:51	1

Lab Sample ID: LCS 680-345934/2
Matrix: Water
Analysis Batch: 345934

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	109	107		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-345934/3
Matrix: Water
Analysis Batch: 345934

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	109	108		mg/L		99	80 - 120	1	25

Lab Sample ID: 640-48951-8 DU
Matrix: Water
Analysis Batch: 345934

Client Sample ID: MWB33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		156		mg/L		1	25

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-345872/36
Matrix: Water
Analysis Batch: 345872

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)	0.026	U	0.050	0.026	mg/L			08/25/14 16:59	1

Lab Sample ID: LCS 680-345872/6
Matrix: Water
Analysis Batch: 345872

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	0.956		mg/L		96	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 680-346025/36
Matrix: Water
Analysis Batch: 346025

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)	0.026	U	0.050	0.026	mg/L			08/26/14 11:46	1

Lab Sample ID: LCS 680-346025/26
Matrix: Water
Analysis Batch: 346025

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	0.986		mg/L		99	90 - 110

Lab Sample ID: 640-48933-6 MS
Matrix: Water
Analysis Batch: 346025

Client Sample ID: MWB12I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.052		1.00	1.31	J	mg/L		126	90 - 110

Lab Sample ID: 640-48933-6 MSD
Matrix: Water
Analysis Batch: 346025

Client Sample ID: MWB12I
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)	0.052		1.00	1.31	J	mg/L		126	90 - 110	0	30

Lab Sample ID: 640-48951-12 DU
Matrix: Water
Analysis Batch: 346025

Client Sample ID: MWB3S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.12		0.112		mg/L		6	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-345228/13
Matrix: Water
Analysis Batch: 345228

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			08/21/14 11:15	1

Lab Sample ID: LCS 680-345228/16
Matrix: Water
Analysis Batch: 345228

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	1.05		mg/L		105	90 - 110
Nitrite as N	0.500	0.486		mg/L		97	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 640-48933-1 MS — **Client Sample ID: MWB29S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.010		1.00	0.947		mg/L		95	90 - 110
Nitrite as N	0.010		0.500	0.428	J	mg/L		86	90 - 110

Lab Sample ID: 640-48933-1 MSD — **Client Sample ID: MWB29S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345228

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		1.00	0.950		mg/L		95	90 - 110	0	10
Nitrite as N	0.010		0.500	0.427	J	mg/L		85	90 - 110	0	10

Lab Sample ID: 640-48933-2 DU — **Client Sample ID: MWB27S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345228

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 680-345446/23 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345446

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			08/22/14 11:47	1

Lab Sample ID: LCS 680-345446/15 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.01		mg/L		101	90 - 110
Nitrite as N	0.500	0.487		mg/L		97	90 - 110

Lab Sample ID: 640-48951-2 MS — **Client Sample ID: MWB3I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.010		1.00	0.937		mg/L		94	90 - 110
Nitrite as N	0.010		0.500	0.449		mg/L		90	90 - 110

Lab Sample ID: 640-48951-2 MSD — **Client Sample ID: MWB3I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345446

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		1.00	0.939		mg/L		94	90 - 110	0	10
Nitrite as N	0.010		0.500	0.448		mg/L		90	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 640-48951-11 DU — **Client Sample ID: MWB20S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345446

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.010	J U	0.010	U	mg/L		NC	30

Lab Sample ID: MB 680-345533/32 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345533

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/22/14 17:33	1

Lab Sample ID: LCS 680-345533/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: MB 680-345574/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345574

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/23/14 11:37	1

Lab Sample ID: LCS 680-345574/15 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.998		mg/L		100	90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-346979/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347234 — **Prep Batch: 346979**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		09/02/14 16:09	09/03/14 13:01	1

Lab Sample ID: LCS 680-346979/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347234 — **Prep Batch: 346979**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.09		mg/L		104	60 - 140

Method: 365.4 - Phosphorus, Total (Continued)

Lab Sample ID: 640-48932-1 MS — **Client Sample ID: SW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347234 — **Prep Batch: 346979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.042	I	2.00	2.15		mg/L		105	60 - 140

Lab Sample ID: 640-48932-1 MSD — **Client Sample ID: SW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347234 — **Prep Batch: 346979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.042	I	2.00	2.09		mg/L		102	60 - 140	3	40

Lab Sample ID: 640-48932-2 DU — **Client Sample ID: SW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 347234 — **Prep Batch: 346979**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.041	U	0.041	U	mg/L		NC	40

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-345581/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345581

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			08/21/14 13:12	1

Lab Sample ID: LCS 680-345581/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	222		mg/L		112	85 - 115

Lab Sample ID: LCSD 680-345581/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	224		mg/L		113	85 - 115	1	30

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-346770/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 346770

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			08/29/14 23:00	1

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-346770/4
Matrix: Water
Analysis Batch: 346770

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	20.0	21.1		mg/L		105	80 - 120

Lab Sample ID: LCSD 680-346770/5
Matrix: Water
Analysis Batch: 346770

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 Organic Carbon	20.0	20.9		mg/L		104	80 - 120	1	25

Lab Sample ID: 640-48932-1 MS
Matrix: Water
Analysis Batch: 346770

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21		20.0	42.2		mg/L		106	80 - 120

Lab Sample ID: 640-48932-1 MSD
Matrix: Water
Analysis Batch: 346770

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	21		20.0	41.4		mg/L		102	80 - 120	2	25

Method: SM 5220D - COD

Lab Sample ID: MB 680-346168/3
Matrix: Water
Analysis Batch: 346168

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			08/27/14 12:32	1

Lab Sample ID: LCS 680-346168/4
Matrix: Water
Analysis Batch: 346168

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	52.5		mg/L		105	90 - 110

GC/MS VOA

Analysis Batch: 346308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	8260B	
640-48933-2	MWB27S	Total/NA	Water	8260B	
640-48933-3	MWB13S	Total/NA	Water	8260B	
640-48933-4	MWB22S	Total/NA	Water	8260B	
640-48933-5	MWB12S	Total/NA	Water	8260B	
640-48933-10	Trip Blank 48933	Total/NA	Water	8260B	
LCS 680-346308/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-346308/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-346308/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 346586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	8260B	
640-48951-7	MWB32S	Total/NA	Water	8260B	
640-48951-8	MWB33S	Total/NA	Water	8260B	
640-48951-9	MWB34S	Total/NA	Water	8260B	
640-48951-10	MWB11S	Total/NA	Water	8260B	
640-48951-11	MWB20S	Total/NA	Water	8260B	
640-48951-12	MWB3S	Total/NA	Water	8260B	
640-48951-13	MWB2S	Total/NA	Water	8260B	
640-48951-14	MWB21S	Total/NA	Water	8260B	
640-48951-15	TRIP02 BLANK 48951	Total/NA	Water	8260B	
LCS 680-346586/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-346586/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-346586/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 346741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	8260B	
640-48932-2	SW-3	Total/NA	Water	8260B	
640-48932-3	Trip Blank 48932	Total/NA	Water	8260B	
LCS 680-346741/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-346741/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-346741/8	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 345210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	8011	
640-48932-2	SW-3	Total/NA	Water	8011	
LCS 680-345210/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-345210/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-345210/3-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 345364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	8011	345210
640-48932-2	SW-3	Total/NA	Water	8011	345210
LCS 680-345210/4-A	Lab Control Sample	Total/NA	Water	8011	345210

GC Semi VOA (Continued)

Analysis Batch: 345364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-345210/5-A	Lab Control Sample Dup	Total/NA	Water	8011	345210
MB 680-345210/3-A	Method Blank	Total/NA	Water	8011	345210

Prep Batch: 345698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	8011	
640-48933-2	MWB27S	Total/NA	Water	8011	
640-48933-3	MWB13S	Total/NA	Water	8011	
640-48933-4	MWB22S	Total/NA	Water	8011	
640-48933-5	MWB12S	Total/NA	Water	8011	
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	8011	
640-48951-6 MS	FIELD BLANK 01 48951	Total/NA	Water	8011	
640-48951-6 MSD	FIELD BLANK 01 48951	Total/NA	Water	8011	
640-48951-7	MWB32S	Total/NA	Water	8011	
640-48951-7 MS	MWB32S	Total/NA	Water	8011	
640-48951-8	MWB33S	Total/NA	Water	8011	
640-48951-9	MWB34S	Total/NA	Water	8011	
640-48951-10	MWB11S	Total/NA	Water	8011	
640-48951-11	MWB20S	Total/NA	Water	8011	
640-48951-12	MWB3S	Total/NA	Water	8011	
640-48951-13	MWB2S	Total/NA	Water	8011	
640-48951-14	MWB21S	Total/NA	Water	8011	
LCS 680-345698/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-345698/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-345698/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 346192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	8011	345698
640-48933-2	MWB27S	Total/NA	Water	8011	345698
640-48933-3	MWB13S	Total/NA	Water	8011	345698
640-48933-4	MWB22S	Total/NA	Water	8011	345698
640-48933-5	MWB12S	Total/NA	Water	8011	345698
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	8011	345698
640-48951-6 MS	FIELD BLANK 01 48951	Total/NA	Water	8011	345698
640-48951-6 MSD	FIELD BLANK 01 48951	Total/NA	Water	8011	345698
640-48951-7	MWB32S	Total/NA	Water	8011	345698
640-48951-7 MS	MWB32S	Total/NA	Water	8011	345698
640-48951-8	MWB33S	Total/NA	Water	8011	345698
640-48951-9	MWB34S	Total/NA	Water	8011	345698
640-48951-10	MWB11S	Total/NA	Water	8011	345698
640-48951-11	MWB20S	Total/NA	Water	8011	345698
640-48951-12	MWB3S	Total/NA	Water	8011	345698
640-48951-13	MWB2S	Total/NA	Water	8011	345698
640-48951-14	MWB21S	Total/NA	Water	8011	345698
LCS 680-345698/11-A	Lab Control Sample	Total/NA	Water	8011	345698
LCSD 680-345698/12-A	Lab Control Sample Dup	Total/NA	Water	8011	345698
MB 680-345698/10-A	Method Blank	Total/NA	Water	8011	345698

HPLC/IC

Analysis Batch: 347113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	300.0	
640-48933-2	MWB27S	Total/NA	Water	300.0	
640-48933-3	MWB13S	Total/NA	Water	300.0	
640-48933-4	MWB22S	Total/NA	Water	300.0	
640-48933-4 MS	MWB22S	Total/NA	Water	300.0	
640-48933-4 MSD	MWB22S	Total/NA	Water	300.0	
LCS 680-347113/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-347113/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-347113/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 347223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-6	MWB12I	Total/NA	Water	300.0	
640-48933-7	MWB13I	Total/NA	Water	300.0	
640-48933-8	MWB27I	Total/NA	Water	300.0	
640-48933-9	MWB29I	Total/NA	Water	300.0	
640-48933-9 MS	MWB29I	Total/NA	Water	300.0	
640-48933-9 MSD	MWB29I	Total/NA	Water	300.0	
640-48951-1	MWB2I	Total/NA	Water	300.0	
640-48951-2	MWB3I	Total/NA	Water	300.0	
640-48951-3	MWB11I (R)	Total/NA	Water	300.0	
640-48951-4	MWB34I	Total/NA	Water	300.0	
640-48951-5	MWB32I	Total/NA	Water	300.0	
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	300.0	
640-48951-7	MWB32S	Total/NA	Water	300.0	
640-48951-7 MS	MWB32S	Total/NA	Water	300.0	
640-48951-7 MSD	MWB32S	Total/NA	Water	300.0	
640-48951-8	MWB33S	Total/NA	Water	300.0	
640-48951-10	MWB11S	Total/NA	Water	300.0	
640-48951-11	MWB20S	Total/NA	Water	300.0	
640-48951-12	MWB3S	Total/NA	Water	300.0	
LCS 680-347223/33	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-347223/34	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-347223/32	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 347224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-13	MWB2S	Total/NA	Water	300.0	
640-48951-14	MWB21S	Total/NA	Water	300.0	
640-48951-14 MS	MWB21S	Total/NA	Water	300.0	
640-48951-14 MSD	MWB21S	Total/NA	Water	300.0	
LCS 680-347224/59	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-347224/60	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-347224/58	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 347297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-5	MWB12S	Total/NA	Water	300.0	
640-48951-9	MWB34S	Total/NA	Water	300.0	
640-48951-9 MS	MWB34S	Total/NA	Water	300.0	
640-48951-9 MSD	MWB34S	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 347297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-347297/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-347297/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-347297/5	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 228490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	1631E	
640-48932-2	SW-3	Total/NA	Water	1631E	
LCS 400-228490/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-228490/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-228490/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 228555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	1631E	228490
640-48932-2	SW-3	Total/NA	Water	1631E	228490
LCS 400-228490/2-A	Lab Control Sample	Total/NA	Water	1631E	228490
LCSD 400-228490/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	228490
MB 400-228490/1-A	Method Blank	Total/NA	Water	1631E	228490

Prep Batch: 345254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	7470A	
640-48933-1 MS	MWB29S	Total/NA	Water	7470A	
640-48933-1 MSD	MWB29S	Total/NA	Water	7470A	
640-48933-2	MWB27S	Total/NA	Water	7470A	
640-48933-3	MWB13S	Total/NA	Water	7470A	
640-48933-4	MWB22S	Total/NA	Water	7470A	
640-48933-5	MWB12S	Total/NA	Water	7470A	
LCS 680-345254/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-345254/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 345416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total Recoverable	Water	3005A	
640-48933-2	MWB27S	Total Recoverable	Water	3005A	
640-48933-3	MWB13S	Total Recoverable	Water	3005A	
640-48933-4	MWB22S	Total Recoverable	Water	3005A	
640-48933-5	MWB12S	Total Recoverable	Water	3005A	
640-48933-6	MWB12I	Total Recoverable	Water	3005A	
640-48933-7	MWB13I	Total Recoverable	Water	3005A	
640-48933-8	MWB27I	Total Recoverable	Water	3005A	
640-48933-9	MWB29I	Total Recoverable	Water	3005A	
640-48933-9 MS	MWB29I	Total Recoverable	Water	3005A	
640-48933-9 MSD	MWB29I	Total Recoverable	Water	3005A	
LCS 680-345416/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-345416/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 345449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	7470A	345254
640-48933-1 MS	MWB29S	Total/NA	Water	7470A	345254
640-48933-1 MSD	MWB29S	Total/NA	Water	7470A	345254
640-48933-2	MWB27S	Total/NA	Water	7470A	345254
640-48933-3	MWB13S	Total/NA	Water	7470A	345254
640-48933-4	MWB22S	Total/NA	Water	7470A	345254
640-48933-5	MWB12S	Total/NA	Water	7470A	345254
LCS 680-345254/2-A	Lab Control Sample	Total/NA	Water	7470A	345254
MB 680-345254/1-A	Method Blank	Total/NA	Water	7470A	345254

Prep Batch: 345643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-14	MWB21S	Total/NA	Water	7470A	
LCS 680-345643/14-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-345643/13-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 345653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	7470A	
640-48951-7	MWB32S	Total/NA	Water	7470A	
640-48951-8	MWB33S	Total/NA	Water	7470A	
640-48951-9	MWB34S	Total/NA	Water	7470A	
640-48951-10	MWB11S	Total/NA	Water	7470A	
640-48951-11	MWB20S	Total/NA	Water	7470A	
640-48951-12	MWB3S	Total/NA	Water	7470A	
640-48951-13	MWB2S	Total/NA	Water	7470A	
LCS 680-345653/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-345653/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 345742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total Recoverable	Water	3005A	
640-48932-2	SW-3	Total Recoverable	Water	3005A	
LCS 680-345742/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-345742/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 345770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-1	MWB2I	Total Recoverable	Water	3005A	
640-48951-2	MWB3I	Total Recoverable	Water	3005A	
640-48951-3	MWB11I (R)	Total Recoverable	Water	3005A	
640-48951-4	MWB34I	Total Recoverable	Water	3005A	
640-48951-5	MWB32I	Total Recoverable	Water	3005A	
640-48951-6	FIELD BLANK 01 48951	Total Recoverable	Water	3005A	
640-48951-7	MWB32S	Total Recoverable	Water	3005A	
640-48951-8	MWB33S	Total Recoverable	Water	3005A	
640-48951-9	MWB34S	Total Recoverable	Water	3005A	
640-48951-10	MWB11S	Total Recoverable	Water	3005A	
640-48951-11	MWB20S	Total Recoverable	Water	3005A	
LCS 680-345770/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-345770/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 345843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-12	MWB3S	Total Recoverable	Water	3005A	
640-48951-13	MWB2S	Dissolved	Water	3005A	
640-48951-13	MWB2S	Total Recoverable	Water	3005A	
640-48951-14	MWB21S	Total Recoverable	Water	3005A	
LCS 680-345843/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-345843/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 345923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	7470A	345653
640-48951-7	MWB32S	Total/NA	Water	7470A	345653
640-48951-8	MWB33S	Total/NA	Water	7470A	345653
640-48951-9	MWB34S	Total/NA	Water	7470A	345653
640-48951-10	MWB11S	Total/NA	Water	7470A	345653
640-48951-11	MWB20S	Total/NA	Water	7470A	345653
640-48951-12	MWB3S	Total/NA	Water	7470A	345653
640-48951-13	MWB2S	Total/NA	Water	7470A	345653
640-48951-14	MWB21S	Total/NA	Water	7470A	345643
LCS 680-345643/14-A	Lab Control Sample	Total/NA	Water	7470A	345643
LCS 680-345653/2-A	Lab Control Sample	Total/NA	Water	7470A	345653
MB 680-345643/13-A	Method Blank	Total/NA	Water	7470A	345643
MB 680-345653/1-A	Method Blank	Total/NA	Water	7470A	345653

Analysis Batch: 345970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total Recoverable	Water	6020	345416
640-48933-2	MWB27S	Total Recoverable	Water	6020	345416
640-48933-3	MWB13S	Total Recoverable	Water	6020	345416
640-48933-4	MWB22S	Total Recoverable	Water	6020	345416
640-48933-5	MWB12S	Total Recoverable	Water	6020	345416
640-48933-6	MWB12I	Total Recoverable	Water	6020	345416
640-48933-7	MWB13I	Total Recoverable	Water	6020	345416
640-48933-8	MWB27I	Total Recoverable	Water	6020	345416
640-48933-9	MWB29I	Total Recoverable	Water	6020	345416
640-48933-9 MS	MWB29I	Total Recoverable	Water	6020	345416
640-48933-9 MSD	MWB29I	Total Recoverable	Water	6020	345416
LCS 680-345416/2-A	Lab Control Sample	Total Recoverable	Water	6020	345416
MB 680-345416/1-A	Method Blank	Total Recoverable	Water	6020	345416

Analysis Batch: 346224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-12	MWB3S	Total Recoverable	Water	6020	345843
640-48951-13	MWB2S	Dissolved	Water	6020	345843
640-48951-13	MWB2S	Total Recoverable	Water	6020	345843
640-48951-14	MWB21S	Total Recoverable	Water	6020	345843
LCS 680-345843/2-A	Lab Control Sample	Total Recoverable	Water	6020	345843
MB 680-345843/1-A	Method Blank	Total Recoverable	Water	6020	345843

Analysis Batch: 346649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total Recoverable	Water	6020	345742

Metals (Continued)

Analysis Batch: 346649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-2	SW-3	Total Recoverable	Water	6020	345742
640-48951-1	MWB2I	Total Recoverable	Water	6020	345770
640-48951-2	MWB3I	Total Recoverable	Water	6020	345770
640-48951-3	MWB11I (R)	Total Recoverable	Water	6020	345770
640-48951-4	MWB34I	Total Recoverable	Water	6020	345770
640-48951-5	MWB32I	Total Recoverable	Water	6020	345770
640-48951-6	FIELD BLANK 01 48951	Total Recoverable	Water	6020	345770
640-48951-7	MWB32S	Total Recoverable	Water	6020	345770
640-48951-8	MWB33S	Total Recoverable	Water	6020	345770
640-48951-9	MWB34S	Total Recoverable	Water	6020	345770
640-48951-10	MWB11S	Total Recoverable	Water	6020	345770
640-48951-11	MWB20S	Total Recoverable	Water	6020	345770
LCS 680-345742/2-A	Lab Control Sample	Total Recoverable	Water	6020	345742
LCS 680-345770/2-A	Lab Control Sample	Total Recoverable	Water	6020	345770
MB 680-345742/1-A	Method Blank	Total Recoverable	Water	6020	345742
MB 680-345770/1-A	Method Blank	Total Recoverable	Water	6020	345770

Analysis Batch: 347388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	SM 2340B	
640-48932-2	SW-3	Total/NA	Water	SM 2340B	
MB 680-347388/1	Method Blank	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 111398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	UnionizedNH3	
640-48932-2	SW-3	Total/NA	Water	UnionizedNH3	

Analysis Batch: 345228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	353.2	
640-48932-2	SW-3	Total/NA	Water	353.2	
640-48933-1	MWB29S	Total/NA	Water	353.2	
640-48933-1 MS	MWB29S	Total/NA	Water	353.2	
640-48933-1 MSD	MWB29S	Total/NA	Water	353.2	
640-48933-2	MWB27S	Total/NA	Water	353.2	
640-48933-2 DU	MWB27S	Total/NA	Water	353.2	
640-48933-3	MWB13S	Total/NA	Water	353.2	
640-48933-4	MWB22S	Total/NA	Water	353.2	
640-48933-5	MWB12S	Total/NA	Water	353.2	
640-48933-6	MWB12I	Total/NA	Water	353.2	
640-48933-7	MWB13I	Total/NA	Water	353.2	
640-48933-8	MWB27I	Total/NA	Water	353.2	
640-48933-9	MWB29I	Total/NA	Water	353.2	
LCS 680-345228/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-345228/13	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 345309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	2540C-2011	
640-48933-2	MWB27S	Total/NA	Water	2540C-2011	
640-48933-3	MWB13S	Total/NA	Water	2540C-2011	
640-48933-4	MWB22S	Total/NA	Water	2540C-2011	
640-48933-4 DU	MWB22S	Total/NA	Water	2540C-2011	
640-48933-5	MWB12S	Total/NA	Water	2540C-2011	
640-48933-6	MWB12I	Total/NA	Water	2540C-2011	
640-48933-7	MWB13I	Total/NA	Water	2540C-2011	
640-48933-8	MWB27I	Total/NA	Water	2540C-2011	
LCS 680-345309/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-345309/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-345309/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 345446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-2 MS	MWB3I	Total/NA	Water	353.2	
640-48951-2 MSD	MWB3I	Total/NA	Water	353.2	
640-48951-3	MWB11I (R)	Total/NA	Water	353.2	
640-48951-4	MWB34I	Total/NA	Water	353.2	
640-48951-5	MWB32I	Total/NA	Water	353.2	
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	353.2	
640-48951-7	MWB32S	Total/NA	Water	353.2	
640-48951-8	MWB33S	Total/NA	Water	353.2	
640-48951-9	MWB34S	Total/NA	Water	353.2	
640-48951-10	MWB11S	Total/NA	Water	353.2	
640-48951-11	MWB20S	Total/NA	Water	353.2	
640-48951-11 DU	MWB20S	Total/NA	Water	353.2	
LCS 680-345446/15	Lab Control Sample	Total/NA	Water	353.2	
MB 680-345446/23	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 345533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	353.2	
LCS 680-345533/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-345533/32	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 345564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-1	MWB2I	Total/NA	Water	353.2	
640-48951-2	MWB3I	Total/NA	Water	353.2	
640-48951-12	MWB3S	Total/NA	Water	353.2	
640-48951-13	MWB2S	Total/NA	Water	353.2	
640-48951-14	MWB21S	Total/NA	Water	353.2	

Analysis Batch: 345574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-2	SW-3	Total/NA	Water	353.2	
LCS 680-345574/15	Lab Control Sample	Total/NA	Water	353.2	
MB 680-345574/13	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 345581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	5210B-2011	
640-48932-2	SW-3	Total/NA	Water	5210B-2011	
LCS 680-345581/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-345581/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-345581/1	Method Blank	Total/NA	Water	5210B-2011	

Analysis Batch: 345605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	2540C-2011	
640-48932-1 DU	SW-1	Total/NA	Water	2540C-2011	
640-48932-2	SW-3	Total/NA	Water	2540C-2011	
640-48932-2 DU	SW-3	Total/NA	Water	2540C-2011	
640-48933-9	MWB29I	Total/NA	Water	2540C-2011	
LCS 680-345605/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-345605/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-345605/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 345872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-1	MWB29S	Total/NA	Water	350.1	
640-48933-2	MWB27S	Total/NA	Water	350.1	
640-48933-3	MWB13S	Total/NA	Water	350.1	
640-48933-4	MWB22S	Total/NA	Water	350.1	
640-48933-5	MWB12S	Total/NA	Water	350.1	
LCS 680-345872/6	Lab Control Sample	Total/NA	Water	350.1	
MB 680-345872/36	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 345934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48951-1	MWB2I	Total/NA	Water	2540C-2011	
640-48951-2	MWB3I	Total/NA	Water	2540C-2011	
640-48951-3	MWB11I (R)	Total/NA	Water	2540C-2011	
640-48951-4	MWB34I	Total/NA	Water	2540C-2011	
640-48951-5	MWB32I	Total/NA	Water	2540C-2011	
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	2540C-2011	
640-48951-7	MWB32S	Total/NA	Water	2540C-2011	
640-48951-8	MWB33S	Total/NA	Water	2540C-2011	
640-48951-8 DU	MWB33S	Total/NA	Water	2540C-2011	
640-48951-9	MWB34S	Total/NA	Water	2540C-2011	
640-48951-10	MWB11S	Total/NA	Water	2540C-2011	
640-48951-11	MWB20S	Total/NA	Water	2540C-2011	
640-48951-12	MWB3S	Total/NA	Water	2540C-2011	
640-48951-13	MWB2S	Total/NA	Water	2540C-2011	
640-48951-14	MWB21S	Total/NA	Water	2540C-2011	
LCS 680-345934/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-345934/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-345934/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 346025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-6	MWB12I	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 346025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48933-6 MS	MWB12I	Total/NA	Water	350.1	
640-48933-6 MSD	MWB12I	Total/NA	Water	350.1	
640-48933-7	MWB13I	Total/NA	Water	350.1	
640-48933-8	MWB27I	Total/NA	Water	350.1	
640-48933-9	MWB29I	Total/NA	Water	350.1	
640-48951-1	MWB2I	Total/NA	Water	350.1	
640-48951-2	MWB3I	Total/NA	Water	350.1	
640-48951-3	MWB11I (R)	Total/NA	Water	350.1	
640-48951-4	MWB34I	Total/NA	Water	350.1	
640-48951-5	MWB32I	Total/NA	Water	350.1	
640-48951-6	FIELD BLANK 01 48951	Total/NA	Water	350.1	
640-48951-7	MWB32S	Total/NA	Water	350.1	
640-48951-8	MWB33S	Total/NA	Water	350.1	
640-48951-9	MWB34S	Total/NA	Water	350.1	
640-48951-10	MWB11S	Total/NA	Water	350.1	
640-48951-11	MWB20S	Total/NA	Water	350.1	
640-48951-12	MWB3S	Total/NA	Water	350.1	
640-48951-12 DU	MWB3S	Total/NA	Water	350.1	
640-48951-13	MWB2S	Total/NA	Water	350.1	
640-48951-14	MWB21S	Total/NA	Water	350.1	
LCS 680-346025/26	Lab Control Sample	Total/NA	Water	350.1	
MB 680-346025/36	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 346168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	SM 5220D	
640-48932-2	SW-3	Total/NA	Water	SM 5220D	
LCS 680-346168/4	Lab Control Sample	Total/NA	Water	SM 5220D	
MB 680-346168/3	Method Blank	Total/NA	Water	SM 5220D	

Analysis Batch: 346189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	2540 D-2011	
640-48932-2	SW-3	Total/NA	Water	2540 D-2011	
LCS 680-346189/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-346189/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-346189/1	Method Blank	Total/NA	Water	2540 D-2011	

Analysis Batch: 346704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	Total Nitrogen	
640-48932-2	SW-3	Total/NA	Water	Total Nitrogen	

Analysis Batch: 346770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	5310 B-2011	
640-48932-1 MS	SW-1	Total/NA	Water	5310 B-2011	
640-48932-1 MSD	SW-1	Total/NA	Water	5310 B-2011	
640-48932-2	SW-3	Total/NA	Water	5310 B-2011	
LCS 680-346770/4	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-346770/5	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	

General Chemistry (Continued)

Analysis Batch: 346770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-346770/3	Method Blank	Total/NA	Water	5310 B-2011	

Prep Batch: 346979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	Digestion	
640-48932-1 MS	SW-1	Total/NA	Water	Digestion	
640-48932-1 MSD	SW-1	Total/NA	Water	Digestion	
640-48932-2	SW-3	Total/NA	Water	Digestion	
640-48932-2 DU	SW-3	Total/NA	Water	Digestion	
LCS 680-346979/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-346979/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 347234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	365.4	346979
640-48932-1 MS	SW-1	Total/NA	Water	365.4	346979
640-48932-1 MSD	SW-1	Total/NA	Water	365.4	346979
640-48932-2	SW-3	Total/NA	Water	365.4	346979
640-48932-2 DU	SW-3	Total/NA	Water	365.4	346979
LCS 680-346979/1-A	Lab Control Sample	Total/NA	Water	365.4	346979
MB 680-346979/2-A	Method Blank	Total/NA	Water	365.4	346979

Field Service / Mobile Lab

Analysis Batch: 111383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48932-1	SW-1	Total/NA	Water	Field Sampling	
640-48932-2	SW-3	Total/NA	Water	Field Sampling	
640-48933-1	MWB29S	Total/NA	Water	Field Sampling	
640-48933-2	MWB27S	Total/NA	Water	Field Sampling	
640-48933-3	MWB13S	Total/NA	Water	Field Sampling	
640-48933-4	MWB22S	Total/NA	Water	Field Sampling	
640-48933-5	MWB12S	Total/NA	Water	Field Sampling	
640-48933-6	MWB12I	Total/NA	Water	Field Sampling	
640-48933-7	MWB13I	Total/NA	Water	Field Sampling	
640-48933-8	MWB27I	Total/NA	Water	Field Sampling	
640-48933-9	MWB29I	Total/NA	Water	Field Sampling	
640-48951-1	MWB2I	Total/NA	Water	Field Sampling	
640-48951-2	MWB3I	Total/NA	Water	Field Sampling	
640-48951-3	MWB11I (R)	Total/NA	Water	Field Sampling	
640-48951-4	MWB34I	Total/NA	Water	Field Sampling	
640-48951-5	MWB32I	Total/NA	Water	Field Sampling	
640-48951-7	MWB32S	Total/NA	Water	Field Sampling	
640-48951-8	MWB33S	Total/NA	Water	Field Sampling	
640-48951-9	MWB34S	Total/NA	Water	Field Sampling	
640-48951-10	MWB11S	Total/NA	Water	Field Sampling	
640-48951-11	MWB20S	Total/NA	Water	Field Sampling	
640-48951-12	MWB3S	Total/NA	Water	Field Sampling	
640-48951-13	MWB2S	Total/NA	Water	Field Sampling	
640-48951-14	MWB21S	Total/NA	Water	Field Sampling	

Client Sample ID: SW-1

Lab Sample ID: 640-48932-1

Date Collected: 08/20/14 07:40

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346741	08/30/14 18:36	MMT	TAL SAV
Total/NA	Prep	8011			345210	08/21/14 14:43	SSP	TAL SAV
Total/NA	Analysis	8011		1	345364	08/22/14 06:50	SSP	TAL SAV
Total/NA	Prep	1631E			228490	08/22/14 15:25	VLC	TAL PEN
Total/NA	Analysis	1631E		1	228555	09/02/14 11:39	VLC	TAL PEN
Total Recoverable	Prep	3005A			345742	08/25/14 13:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 06:18	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	347388	08/29/14 06:18	BCB	TAL SAV
Total/NA	Analysis	2540 D-2011		1	346189	08/27/14 14:36	LBH	TAL SAV
Total/NA	Analysis	2540C-2011		1	345605	08/24/14 14:00	LBH	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:42	GRX	TAL SAV
Total/NA	Analysis	353.2		1	345533	08/22/14 17:30	GRX	TAL SAV
Total/NA	Prep	Digestion			346979	09/02/14 16:09	ASH	TAL SAV
Total/NA	Analysis	365.4		1	347234	09/03/14 13:02	AJO	TAL SAV
Total/NA	Analysis	5210B-2011		1	345581	08/21/14 13:12	OLB	TAL SAV
Total/NA	Analysis	5310 B-2011		1	346770	08/30/14 00:17	PAT	TAL SAV
Total/NA	Analysis	SM 5220D		1	346168	08/27/14 12:32	JRJ	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	346704	08/29/14 16:04	AJO	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	111398	09/04/14 07:19	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 07:40	FDS	TAL TAL

Client Sample ID: SW-3

Lab Sample ID: 640-48932-2

Date Collected: 08/20/14 08:15

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346741	08/30/14 19:02	MMT	TAL SAV
Total/NA	Prep	8011			345210	08/21/14 14:43	SSP	TAL SAV
Total/NA	Analysis	8011		1	345364	08/22/14 07:02	SSP	TAL SAV
Total/NA	Prep	1631E			228490	08/22/14 15:25	VLC	TAL PEN
Total/NA	Analysis	1631E		1	228555	09/02/14 11:47	VLC	TAL PEN
Total Recoverable	Prep	3005A			345742	08/25/14 13:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 06:40	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	347388	08/29/14 06:40	BCB	TAL SAV
Total/NA	Analysis	2540 D-2011		1	346189	08/27/14 14:19	LBH	TAL SAV
Total/NA	Analysis	2540C-2011		1	345605	08/24/14 14:00	LBH	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:45	GRX	TAL SAV
Total/NA	Analysis	353.2		1	345574	08/23/14 11:52	GRX	TAL SAV
Total/NA	Prep	Digestion			346979	09/02/14 16:09	ASH	TAL SAV
Total/NA	Analysis	365.4		1	347234	09/03/14 13:05	AJO	TAL SAV
Total/NA	Analysis	5210B-2011		1	345581	08/21/14 13:12	OLB	TAL SAV

Client Sample ID: SW-3

Lab Sample ID: 640-48932-2

Date Collected: 08/20/14 08:15

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	5310 B-2011		1	346770	08/30/14 00:59	PAT	TAL SAV
Total/NA	Analysis	SM 5220D		1	346168	08/27/14 12:32	JRJ	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	346704	08/29/14 16:04	AJO	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	111398	09/04/14 07:19	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 08:15	FDS	TAL TAL

Client Sample ID: Trip Blank 48932

Lab Sample ID: 640-48932-3

Date Collected: 08/20/14 00:00

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346741	08/30/14 13:01	MMT	TAL SAV

Client Sample ID: MWB29S

Lab Sample ID: 640-48933-1

Date Collected: 08/19/14 18:39

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 16:28	MMT	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 17:51	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347113	09/03/14 18:15	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:22	BWR	TAL SAV
Total/NA	Prep	7470A			345254	08/21/14 13:41	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345449	08/22/14 09:32	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	345872	08/25/14 16:50	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:22	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 18:38	FDS	TAL TAL

Client Sample ID: MWB27S

Lab Sample ID: 640-48933-2

Date Collected: 08/19/14 17:29

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 16:54	MMT	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 18:03	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347113	09/03/14 18:29	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:29	BWR	TAL SAV

Client Sample ID: MWB27S

Lab Sample ID: 640-48933-2

Date Collected: 08/19/14 17:29

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			345254	08/21/14 13:41	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345449	08/22/14 09:41	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	345872	08/25/14 16:50	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:26	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 17:28	FDS	TAL TAL

Client Sample ID: MWB13S

Lab Sample ID: 640-48933-3

Date Collected: 08/19/14 16:19

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 17:19	MMT	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 18:15	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347113	09/03/14 18:44	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:37	BWR	TAL SAV
Total/NA	Prep	7470A			345254	08/21/14 13:41	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345449	08/22/14 09:44	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	345872	08/25/14 16:50	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:33	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 16:18	FDS	TAL TAL

Client Sample ID: MWB22S

Lab Sample ID: 640-48933-4

Date Collected: 08/19/14 15:10

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 17:45	MMT	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 18:27	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347113	09/03/14 18:58	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:44	BWR	TAL SAV
Total/NA	Prep	7470A			345254	08/21/14 13:41	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345449	08/22/14 09:46	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	345872	08/25/14 16:50	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:34	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 15:09	FDS	TAL TAL

Client Sample ID: MWB12S

Lab Sample ID: 640-48933-5

Date Collected: 08/19/14 14:33

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 18:11	MMT	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 18:39	SSP	TAL SAV
Total/NA	Analysis	300.0		2	347297	09/04/14 11:05	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:51	BWR	TAL SAV
Total/NA	Prep	7470A			345254	08/21/14 13:41	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345449	08/22/14 09:49	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	345872	08/25/14 16:50	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:36	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 14:32	FDS	TAL TAL

Client Sample ID: MWB12I

Lab Sample ID: 640-48933-6

Date Collected: 08/19/14 14:03

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 20:54	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 19:59	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 10:56	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:37	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 14:02	FDS	TAL TAL

Client Sample ID: MWB13I

Lab Sample ID: 640-48933-7

Date Collected: 08/19/14 15:45

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 21:08	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 20:06	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 10:57	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:38	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 15:44	FDS	TAL TAL

Client Sample ID: MWB27I

Lab Sample ID: 640-48933-8

Date Collected: 08/19/14 16:59

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 21:22	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 20:14	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345309	08/21/14 15:06	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 10:57	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:39	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 16:58	FDS	TAL TAL

Client Sample ID: MWB29I

Lab Sample ID: 640-48933-9

Date Collected: 08/19/14 18:05

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 21:37	DAS	TAL SAV
Total Recoverable	Prep	3005A			345416	08/22/14 09:59	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	345970	08/25/14 14:05	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345605	08/24/14 14:00	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:06	JME	TAL SAV
Total/NA	Analysis	353.2		1	345228	08/21/14 11:40	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/19/14 18:04	FDS	TAL TAL

Client Sample ID: Trip Blank 48933

Lab Sample ID: 640-48933-10

Date Collected: 08/19/14 00:00

Matrix: Water

Date Received: 08/21/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346308	08/28/14 12:41	MMT	TAL SAV

Client Sample ID: MWB2I

Lab Sample ID: 640-48951-1

Date Collected: 08/20/14 09:51

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 22:20	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 02:16	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:06	JME	TAL SAV
Total/NA	Analysis	353.2		1	345564	08/22/14 11:58	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 09:50	FDS	TAL TAL

Client Sample ID: MWB3I

Lab Sample ID: 640-48951-2

Date Collected: 08/20/14 11:26

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 22:34	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 02:23	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:06	JME	TAL SAV
Total/NA	Analysis	353.2		1	345564	08/22/14 11:39	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 11:25	FDS	TAL TAL

Client Sample ID: MWB11I (R)

Lab Sample ID: 640-48951-3

Date Collected: 08/20/14 12:34

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 22:49	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 02:31	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:06	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:49	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 12:33	FDS	TAL TAL

Client Sample ID: MWB34I

Lab Sample ID: 640-48951-4

Date Collected: 08/20/14 13:39

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 23:03	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 02:52	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:36	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:51	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 13:38	FDS	TAL TAL

Client Sample ID: MWB32I

Lab Sample ID: 640-48951-5

Date Collected: 08/20/14 15:21

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	347223	09/03/14 23:46	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV

Client Sample ID: MWB32I

Lab Sample ID: 640-48951-5

Date Collected: 08/20/14 15:21

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:00	BWR	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:36	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:55	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 15:20	FDS	TAL TAL

Client Sample ID: FIELD BLANK 01 48951

Lab Sample ID: 640-48951-6

Date Collected: 08/20/14 16:05

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 15:25	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 18:51	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 00:01	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:07	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:19	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 10:57	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:57	GRX	TAL SAV

Client Sample ID: MWB32S

Lab Sample ID: 640-48951-7

Date Collected: 08/20/14 15:52

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 15:54	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 19:03	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 00:15	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:14	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:22	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:36	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:56	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 15:51	FDS	TAL TAL

Client Sample ID: MWB33S

Lab Sample ID: 640-48951-8

Date Collected: 08/20/14 14:45

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 16:23	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 19:15	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 00:58	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:22	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:25	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:36	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:53	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 14:44	FDS	TAL TAL

Client Sample ID: MWB34S

Lab Sample ID: 640-48951-9

Date Collected: 08/20/14 14:12

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 16:53	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 19:27	SSP	TAL SAV
Total/NA	Analysis	300.0		2	347297	09/04/14 11:21	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:29	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:28	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		2	346025	08/26/14 11:43	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:52	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 14:11	FDS	TAL TAL

Client Sample ID: MWB11S

Lab Sample ID: 640-48951-10

Date Collected: 08/20/14 13:04

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 17:22	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 19:39	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 01:27	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:36	BWR	TAL SAV

Client Sample ID: MWB11S

Lab Sample ID: 640-48951-10

Date Collected: 08/20/14 13:04

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:30	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:36	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:50	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 13:03	FDS	TAL TAL

Client Sample ID: MWB20S

Lab Sample ID: 640-48951-11

Date Collected: 08/20/14 12:00

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 17:52	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 19:51	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 01:42	DAS	TAL SAV
Total Recoverable	Prep	3005A			345770	08/25/14 15:12	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346649	08/29/14 03:44	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:33	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:39	JME	TAL SAV
Total/NA	Analysis	353.2		1	345446	08/22/14 11:43	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 11:59	FDS	TAL TAL

Client Sample ID: MWB3S

Lab Sample ID: 640-48951-12

Date Collected: 08/20/14 10:54

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 18:21	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 20:03	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347223	09/04/14 01:56	DAS	TAL SAV
Total Recoverable	Prep	3005A			345843	08/26/14 07:47	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346224	08/26/14 17:52	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:42	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 10:57	JME	TAL SAV
Total/NA	Analysis	353.2		1	345564	08/22/14 12:02	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 10:53	FDS	TAL TAL

Client Sample ID: MWB2S

Lab Sample ID: 640-48951-13

Date Collected: 08/20/14 10:20

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 18:50	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 20:15	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347224	09/04/14 03:08	DAS	TAL SAV
Dissolved	Prep	3005A			345843	08/26/14 07:47	SP	TAL SAV
Dissolved	Analysis	6020		1	346224	08/26/14 18:22	BWR	TAL SAV
Total Recoverable	Prep	3005A			345843	08/26/14 07:47	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346224	08/26/14 18:15	BWR	TAL SAV
Total/NA	Prep	7470A			345653	08/25/14 09:22	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 18:45	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:14	JME	TAL SAV
Total/NA	Analysis	353.2		1	345564	08/22/14 12:04	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 10:19	FDS	TAL TAL

Client Sample ID: MWB21S

Lab Sample ID: 640-48951-14

Date Collected: 08/20/14 09:18

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 19:20	TF1	TAL SAV
Total/NA	Prep	8011			345698	08/27/14 09:53	SSP	TAL SAV
Total/NA	Analysis	8011		1	346192	08/27/14 20:26	SSP	TAL SAV
Total/NA	Analysis	300.0		1	347224	09/04/14 03:22	DAS	TAL SAV
Total Recoverable	Prep	3005A			345843	08/26/14 07:47	SP	TAL SAV
Total Recoverable	Analysis	6020		1	346224	08/26/14 18:29	BWR	TAL SAV
Total/NA	Prep	7470A			345643	08/25/14 08:40	JKL	TAL SAV
Total/NA	Analysis	7470A		1	345923	08/25/14 16:36	JKL	TAL SAV
Total/NA	Analysis	2540C-2011		1	345934	08/26/14 12:51	LBH	TAL SAV
Total/NA	Analysis	350.1		1	346025	08/26/14 11:14	JME	TAL SAV
Total/NA	Analysis	353.2		1	345564	08/22/14 12:03	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	111383	08/20/14 09:17	FDS	TAL TAL

Client Sample ID: TRIP02 BLANK 48951

Lab Sample ID: 640-48951-15

Date Collected: 08/20/14 00:00

Matrix: Water

Date Received: 08/22/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	346586	08/29/14 14:56	TF1	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 640-48932-1

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

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Certification Summary

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

TestAmerica Job ID: 640-48932-1

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	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-15
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-11-2	03-31-15

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	06-30-15
Arizona	State Program	9	AZ0710	01-11-15
Arkansas DEQ	State Program	6	88-0689	09-01-14 *
Florida	NELAP	4	E81010	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200041	10-09-14
Iowa	State Program	7	367	08-01-14 *
Kansas	NELAP	7	E-10253	10-31-14
Kentucky (UST)	State Program	4	53	06-30-14 *
Louisiana	NELAP	6	30976	06-30-15
Maryland	State Program	3	233	09-30-14
Massachusetts	State Program	1	M-FL094	06-30-15
Michigan	State Program	5	9912	06-30-14 *
New Jersey	NELAP	2	FL006	06-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-14
Oklahoma	State Program	6	9810	08-31-14 *
Pennsylvania	NELAP	3	68-00467	01-31-15
Rhode Island	State Program	1	LAO00307	12-30-14
South Carolina	State Program	4	96026	06-30-14 *
Tennessee	State Program	4	TN02907	06-30-15
Texas	NELAP	6	T104704286-12-5	09-30-14
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-15
West Virginia DEP	State Program	3	136	06-30-15

Laboratory: TestAmerica Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
353.2		Water	Nitrate Nitrite as N
Total Nitrogen		Water	Nitrogen, Total

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 640-48932-1

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
5210B-2011	BOD, 5-Day	SM	TAL SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
UnionizedNH3	Ammonia, Unionized	FL-DEP	TAL TAL
Field Sampling	Field Sampling	EPA	TAL TAL
9222D Fecal Coliform (Diversified)	SM 9222D Fecal Coliform by MF	NONE	
Chlorophyll a (ENCO)	SM 10200H Chlorophyll-A	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

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Sample Summary

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

TestAmerica Job ID: 640-48932-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-48932-1	SW-1	Water	08/20/14 07:40	08/21/14 08:15
640-48932-2	SW-3	Water	08/20/14 08:15	08/21/14 08:15
640-48932-3	Trip Blank 48932	Water	08/20/14 00:00	08/21/14 08:15
640-48933-1	MWB29S	Water	08/19/14 18:39	08/21/14 08:15
640-48933-2	MWB27S	Water	08/19/14 17:29	08/21/14 08:15
640-48933-3	MWB13S	Water	08/19/14 16:19	08/21/14 08:15
640-48933-4	MWB22S	Water	08/19/14 15:10	08/21/14 08:15
640-48933-5	MWB12S	Water	08/19/14 14:33	08/21/14 08:15
640-48933-6	MWB12I	Water	08/19/14 14:03	08/21/14 08:15
640-48933-7	MWB13I	Water	08/19/14 15:45	08/21/14 08:15
640-48933-8	MWB27I	Water	08/19/14 16:59	08/21/14 08:15
640-48933-9	MWB29I	Water	08/19/14 18:05	08/21/14 08:15
640-48933-10	Trip Blank 48933	Water	08/19/14 00:00	08/21/14 08:15
640-48951-1	MWB2I	Water	08/20/14 09:51	08/22/14 08:20
640-48951-2	MWB3I	Water	08/20/14 11:26	08/22/14 08:20
640-48951-3	MWB11I (R)	Water	08/20/14 12:34	08/22/14 08:20
640-48951-4	MWB34I	Water	08/20/14 13:39	08/22/14 08:20
640-48951-5	MWB32I	Water	08/20/14 15:21	08/22/14 08:20
640-48951-6	FIELD BLANK 01 48951	Water	08/20/14 16:05	08/22/14 08:20
640-48951-7	MWB32S	Water	08/20/14 15:52	08/22/14 08:20
640-48951-8	MWB33S	Water	08/20/14 14:45	08/22/14 08:20
640-48951-9	MWB34S	Water	08/20/14 14:12	08/22/14 08:20
640-48951-10	MWB11S	Water	08/20/14 13:04	08/22/14 08:20
640-48951-11	MWB20S	Water	08/20/14 12:00	08/22/14 08:20
640-48951-12	MWB3S	Water	08/20/14 10:54	08/22/14 08:20
640-48951-13	MWB2S	Water	08/20/14 10:20	08/22/14 08:20
640-48951-14	MWB21S	Water	08/20/14 09:18	08/22/14 08:20
640-48951-15	TRIP02 BLANK 48951	Water	08/20/14 00:00	08/22/14 08:20

DELI Project # 140820.01

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone: 850.878.3994 Fax:

Chain of Custody Record

017348

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Test America	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Fecal Coliforms	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SM9222D Fecal Coli.	Sample Specific Notes:
SW-1	8-20	0746	G	W	1	N		1	# 28557
SW-3	8-20	0815	G	W	1	N		1	# 28558

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Sample temp 3.4 °C

Custody Seals Intact: ☐ Yes ☑ No	Custody Seal No.: NA	Cooler Temp. (°C): Obs'd: 1.0 Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company: TA	Date/Time: 8/20/14 1035	Received by:	Company: Deli	Date/Time: 8/20/14 @ 1035
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/11/2014

Project Login Form

DELI Project Number: 140820.01 Client Name: Test America

Date Received: 08/20/14 Received by: ADA PLF Completed by: JMO

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	1.0	3.4
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. #: 0357 IR Gun Inv. #: 0852

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 #: NA	☐	☑	☐
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?
28557	Fecal Coli	1	–	Yes (No)	–	–	–	100mL P
-28558				Yes / No				
				Yes / No				
				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:

Diversified Environmental Laboratories, Inc.

Amy Atkins
Test America
2846 Industrial Plaza Drive
Tallahassee, FL 32301

August 26, 2014

Re:
DELI Project Number: **140820.01**
Client PO Number:
Client Project Description: **Trail Ridge Landfill**

Dear Ms. Atkins:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
28557	SW-1	08/20/14 07:40	08/20/14 10:35
28558	SW-3	08/20/14 08:15	08/20/14 10:35

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

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

Case Narrative

August 26, 2014

Test America
Amy Atkins

Re: DELI Project Number: **140820.01**
Client Project Description: **Trail Ridge Landfill**

Enclosed is the case narrative for the above referenced project:

Three dilutions were set for sample 28557 (1:4, 1:10 and 1:50). The 1:50 dilution was the only one that fell within the method range and therefore was the only dilution used in the calculation.

Three dilutions were set for sample 28558 (1:4, 1:10 and 1:50). The 1:4 dilution was smeared and therefore not used in the calculation. The result for sample 28558 is based on the average of 2 dilutions at 1:10 and 1:50, both of which were outside the method range. The data was therefore flagged.

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
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
140820.01	Project Description: Trail Ridge Landfill

Report Date: August 26, 2014

DELI Sample Number 28557 | Matrix: Non Potable Water

Sample Designation SW-1 | Date/Time Collected: 08/20/14 07:40

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	1350		cfu/100mL	50	50	50		JMD/ADA	08/20/14 10:45

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
140820.01	Project Description: Trail Ridge Landfill

Report Date: August 26, 2014

DELI Sample Number 28558 — Matrix: Non Potable Water

Sample Designation SW-3 — Date/Time Collected: 08/20/14 08:15

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	158	B	cfu/100mL	10	10	10		JMD/ADA	08/20/14 10:45

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
140820.01	Project Description: Trail Ridge Landfill

Report Date: August 26, 2014

Footnotes

B	Results based upon colony counts outside the acceptable range.
NA	Not Applicable
ND	Not Detected/None Detected

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

Batch No: **B7546**
TestCode: **Coli Fec (MF) 9222D**

Associated Samples: 28557, 28558

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															
Coliform, Fecal	<1 U														
Parent Sample Number															
Coliform, Fecal	<1 U														

* Indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U Compound was analyzed for, but not detected.

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

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

Friday, August 29, 2014
Test America - Tampa (TE022)
Attn: Amy Atkins
6712 Benjamin Road, Suite 100
Tampa, FL 33634

RE: Laboratory Results for
Project Number: 640-48932, Project Name/Desc: Test America -
ENCO Workorder(s): A404901

Dear Amy Atkins,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, August 21, 2014.

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 Camacho

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1 **Lab ID: A404901-01** **Sampled: 08/20/14 07:40** **Received: 08/21/14 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
SM 10200H-2001	08/22/14	07:40	09/04/14	08/21/14	11:30	08/26/14 15:00

Client ID: SW-3 **Lab ID: A404901-02** **Sampled: 08/20/14 08:15** **Received: 08/21/14 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
SM 10200H-2001	08/22/14	08:15	09/04/14	08/21/14	11:30	08/26/14 15:00

SAMPLE DETECTION SUMMARY

Client ID: SW-1 **Lab ID:** A404901-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	0.67		0.50	0.50	mg/m3	SM 10200H-2001	

Client ID: SW-3 **Lab ID:** A404901-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	2.1		0.50	0.50	mg/m3	SM 10200H-2001	

ANALYTICAL RESULTS

Description: SW-1 **Lab Sample ID:** A404901-01 **Received:** 08/21/14 08:55
Matrix: Water **Sampled:** 08/20/14 07:40 **Work Order:** A404901
Project: Test America - **Sampled By:**

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]^	**0.67**		mg/m3	1	0.50	0.50	4H21041	SM 10200H-2001	08/26/14 15:00	M1N	

Description: SW-3 **Lab Sample ID:** A404901-02 **Received:** 08/21/14 08:55
Matrix: Water **Sampled:** 08/20/14 08:15 **Work Order:** A404901
Project: Test America - **Sampled By:**

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]^	**2.1**		mg/m3	1	0.50	0.50	4H21041	SM 10200H-2001	08/26/14 15:00	M1N	

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4H21041 - NO PREP

Blank (4H21041-BLK1) Prepared: 08/21/2014 11:30 Analyzed: 08/26/2014 15:00

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 (4H21041-DUP1) Prepared: 08/21/2014 11:30 Analyzed: 08/26/2014 15:00

Source: A404895-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	8.0		0.50	mg/m3		8.0			0	25	

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.

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone: 850.878.3994 Fax:

Chain of Custody Record

017349

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Amy Atkins	Site Contact:	Date:	COC No:
Company Name: Test America	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 813-885-7427	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tri Ridge Chlorophyll A	☐ 1 week			Job / SDG No.:
Site:	☐ 2 days			
P O #	☐ 1 day			A 404901

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SM10200H Chl a
SW-1	8-20	0740	G	W	1	N		1
SW-3	8-20	0815	G	W	1	N		1

Sample Specific Notes:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

MED BTW

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 1°C Corr'd: 1°C | Therm ID No.: ____

	Company	Date/Time		Company	Date/Time
Relinquished by:	TA	8/20/14 1640	Received by: K. Dyer	ENCO	8/21/14 0955
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-1	SAMPLE ID:		DATE: 8-20-14

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): NA			GROUNDWATER ELEVATION (ft NGVD): 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)	ORP (mV)	COLOR	ODOR
0740	NA	NA	NA	NA	7.11	24.8	345	5.3	16.39	139	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 / PROTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0740	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 COC AND BOTTLE ORDER WORKSHEET								

REMARKS: SW-1 = SURFACE WATER POINT NO SHEEN

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

640-48951

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-3	SAMPLE ID:		DATE:	8-20-14

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): NA — GROUNDWATER ELEVATION (ft NGVD): 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)	ORP (mV)	COLOR	ODOR
0815	NA	NA	NA	NA	3.14	29.1	4886	5.3	14.12	122	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:	0815	SAMPLING ENDED AT:	NR

PUMP OR TUBING DEPTH IN WELL (feet): NA — TUBING MATERIAL CODE: NA — FIELD-FILTERED: Y (N) — FILTER SIZE: µm — Filtration Equipment Type:

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			
	4	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET	

REMARKS: SW-3 = SURFACE WATER POINT — NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW329S	SAMPLE ID:		DATE: 8-19-14

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): 8.55	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 138.02 GROUNDWATER ELEVATION (ft NGVD): 129.47

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: 1819	PURGING ENDED AT: 1839		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
1829	1.60	1.60	0.16	8.67	4.41	26.5	42	0.2	6.28	45		
1832	0.48	2.08	0.16	8.67	4.43	26.4	44	0.3	4.16	48		
1835	0.48	2.56	0.16	8.67	4.44	26.4	44	0.3	3.80	49		
1838	0.48	3.04	0.16	8.67	4.44	26.4	45	0.3	3.37	47	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: 1839		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				

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			
	X SEE SAMPLE G-0-6 AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB27S	SAMPLE ID:	DATE: 8-19-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTHS: 5.5 feet to 15.5 feet	STATIC DEPTH TO WATER (feet): 7.15		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.48		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)
= (15.50 feet - 7.15 feet) X 0.163 gallons/foot = 1.36 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: 1709	PURGING ENDED AT: 1729		TOTAL VOLUME PURGED (gallons): 3.00

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
1719	1.50	1.50	0.15	7.26	5.17	25.0	206	0.0	3.34	61		
1722	0.45	1.95	0.15	7.27	5.17	24.9	206	0.0	3.68	62		
1725	0.45	2.40	0.15	7.29	5.15	24.9	205	0.0	3.72	60		
1728	0.45	2.85	0.15	7.29	5.15	24.9	205	0.0	3.69	61	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: 1729		SAMPLING ENDED AT: NR
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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW313S	SAMPLE ID:		DATE: 8-19-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 6.56 feet to 26.56 feet	STATIC DEPTH TO WATER (feet): 16.72	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 126.06 GROUNDWATER ELEVATION (ft NGVD): 109.34

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (26.56 feet - 16.72 feet) X 0.163 gallons/foot = 1.60 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: 1600	PURGING ENDED AT: 1619	TOTAL VOLUME PURGED (gallons): 3.42

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
1609	1.62	1.62	0.18	17.31	5.88	16.4	325	0.3	8.84	88		
1612	0.54	2.16	0.18	17.31	5.90	16.5	327	0.4	9.02	89		
1615	0.54	2.70	0.18	17.32	5.88	16.5	325	0.4	9.11	89		
1618	0.54	3.24	0.18	17.32	5.89	16.5	329	0.4	9.41	89	YELLOW - 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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1619	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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: ± 6% 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)

6040-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW1322S	SAMPLE ID:		DATE: 8-19-14

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):	12.57	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 126.97 GROUNDWATER ELEVATION (ft NGVD): 114.46

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 = 0.5) gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	21.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	21.00	PURGING INITIATED AT:	1450	PURGING ENDED AT:	1510	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
1500	1.80	1.80	0.18	12.96	5.96	25.8	273	0.1	4.18	4		
1503	0.54	2.34	0.18	12.97	5.95	25.7	273	0.1	3.82	2		
1506	0.54	2.88	0.18	12.97	5.97	25.9	293	0.1	3.80	2		
1509	0.54	3.42	0.18	12.97	5.98	25.7	274	0.1	3.61	1	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:	1510	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	21.00	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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B12 S	SAMPLE ID:		DATE: 8-19-14

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): 10.90		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.63			GROUNDWATER ELEVATION (ft NGVD): 113.73		

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: 1414	PURGING ENDED AT: 1433		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
1423	1.70	1.70	0.17	11.08	5.78	25.7	408	0.2	6.29	68		
1426	0.51	2.21	0.17	11.08	5.77	25.7	409	0.3	5.43	65		
1429	0.51	2.72	0.17	11.08	5.77	25.6	408	0.3	5.29	64		
1432	0.51	3.23	0.17	11.08	5.78	25.6	408	0.3	5.23	63	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./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: 1433		SAMPLING ENDED AT: NR
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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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; 9M = 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: ± 6% 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)

6410-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12I	SAMPLE ID:		DATE: 8-19-14

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): 7.98	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.62			GROUNDWATER ELEVATION (ft NGVD): 116.64	

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)
= 0.13 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: 1342	PURGING ENDED AT: 1403		TOTAL VOLUME PURGED (gallons): 5.88

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
1353	3.08	3.08	0.28	8.08	5.32	25.9	38	0.0	4.31	-129		
1356	0.84	3.92	0.28	8.08	5.35	25.9	39	0.0	3.97	-131		
1359	0.84	4.76	0.28	8.08	5.34	25.8	37	0.1	3.44	-132		
1402	0.84	5.60	0.28	8.08	5.35	25.8	39	0.1	3.71	-133	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: 1403	SAMPLING ENDED AT: NR
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 C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640- 48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13 I	SAMPLE ID:		DATE: 8-19-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 50.4 feet to 60.4 feet	STATIC DEPTH TO WATER (feet): 18.02		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.98			GROUNDWATER ELEVATION (ft NGVD): 107.96		

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): 55.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40	PURGING INITIATED AT: 1524	PURGING ENDED AT: 1545		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
1535	2.75	2.75	0.25	18.26	5.22	25.9	36	0.0	3.19	46		
1538	0.75	3.50	0.25	18.24	5.23	25.9	36	0.1	3.63	49		
1541	0.75	4.25	0.25	18.24	5.23	25.9	35	0.2	3.44	46		
1544	0.75	5.00	0.25	18.24	5.25	25.8	36	0.2	3.71	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" = 0.0008; 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: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1545		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.40	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: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27I	SAMPLE ID:		DATE: 8-19-14

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): 6.62		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.63			GROUNDWATER ELEVATION (ft NGVD): 122.01		

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 62.50 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	PURGING INITIATED AT: 1638	PURGING ENDED AT: 1659		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
1649	2.86	6.86	0.26	6.79	5.54	22.0	51	0.0	4.51	39		
1652	0.78	3.64	0.26	6.79	5.52	22.0	50	0.0	4.44	37		
1655	0.78	4.42	0.26	6.79	5.52	21.9	50	0.0	4.67	37		
1658	0.78	5.20	0.26	6.80	5.55	21.9	51	0.0	4.59	37	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" = 0.0008; 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: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1659		SAMPLING ENDED AT: NR
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			
	X SEE SAMPLE G-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

~~640-58~~ 640-48951 Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29I	SAMPLE ID:		DATE: 8-19-14

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): 7.42		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.08			GROUNDWATER ELEVATION (ft NGVD): 130.66		

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: 1744	PURGING ENDED AT: 1805		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
1755	2.75	2.75	0.25	7.57	5.17	23.6	40	0.2	5.64	61		
1758	0.75	3.50	0.25	7.57	5.19	23.6	40	0.2	4.27	64		
1801	0.75	4.25	0.25	7.57	5.20	23.5	41	0.2	3.86	64		
1804	0.75	5.00	0.25	7.58	5.17	23.5	41	0.2	3.30	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: 1805		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			
	-X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW82I	SAMPLE ID:		DATE: 8-26-11

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): 11.50		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 145.73			GROUNDWATER ELEVATION (ft NGVD): 134.23		

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: 0930	PURGING ENDED AT: 0951		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 unit(s) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0941	2.75	2.75	0.25	11.62	4.81	21.5	40	0.4	3.20	54		
0944	0.75	3.50	0.25	11.63	4.82	21.5	41	0.3	3.49	54		
0947	0.75	4.25	0.25	11.63	4.83	21.5	40	0.3	2.64	55		
0950	0.75	5.00	0.25	11.64	4.82	21.5	41	0.3	3.07	55	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: 0951		SAMPLING ENDED AT: NR
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 C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

COC-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW33I	SAMPLE ID:		DATE: 8-20-14

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): 14.03	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 151.86 GROUNDWATER ELEVATION (ft NGVD): 137.83

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 62.00 feet) + 0.05 gallons = 0.72 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):
57.00	57.00	1105	1126	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
1116	2.86	2.86	0.26	14.97	4.85	21.3	40	0.0	3.26	53		
1119	0.78	3.64	0.26	14.97	4.85	21.2	40	0.0	2.14	54		
1122	0.78	4.42	0.26	14.98	4.82	21.1	40	0.0	2.13	54		
1125	0.78	5.20	0.26	14.98	4.83	21.1	40	0.0	2.08	53	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" = 5.86
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		1126	NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
57.00	T		

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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
NO SHEEN

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)

6040-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B II E (R)	SAMPLE ID:		DATE: 8-20-14

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): 12.21	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 120.43			GROUNDWATER ELEVATION (ft NGVD): 108.22	

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: 1213	PURGING ENDED AT: 1234	TOTAL VOLUME PURGED (gallons): 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
1224	2.64	2.64	0.24	12.28	4.85	24.3	36	0.0	5.14	30		
1227	0.72	3.36	0.24	12.28	4.88	24.3	36	0.0	4.48	32		
1230	0.72	4.08	0.24	12.28	4.86	24.3	36	0.0	4.35	30		
1233	0.72	4.80	0.24	12.28	4.86	24.4	36	0.0	3.97	29	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: 1234	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 50.00	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			
	X SEE SAMPLE CONTAINER AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

C40-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW B34 I	SAMPLE ID:		DATE: 8.20.14

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):	9.05		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	125,80				GROUNDWATER ELEVATION (ft NGVD):		116.75		

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 = 0.62 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	48,95	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	48,95	PURGING INITIATED AT:	1318	PURGING ENDED AT:	1339		TOTAL VOLUME PURGED (gallons):	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
1329	2,64	2,64	0,24	9,15	5,39	25,8	43	0,0	3,92	58		
1332	0,72	3,36	0,24	9,15	5,38	25,8	43	0,0	3,41	60		
1335	0,72	4,08	0,24	9,15	5,38	25,7	43	0,0	3,50	60		
1338	0,72	4,80	0,24	9,16	5,38	25,7	43	0,0	3,44	59	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:	1339		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	48,95	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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32I	SAMPLE ID:		DATE: 8-20-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 54.56 feet to 64.56 feet	STATIC DEPTH TO WATER (feet): 7.78	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.79			GROUNDWATER ELEVATION (ft NGVD): 117.01	

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 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: 1500	PURGING ENDED AT: 1521	TOTAL VOLUME PURGED (gallons): 5.40

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
1511	2.86	2.86	0.26	7.93	5.29	23.0	41	0.0	9.07	22		
1514	0.78	3.64	0.26	7.94	5.28	23.0	41	0.0	9.33	21		
1517	0.78	4.42	0.26	7.94	5.30	23.0	41	0.0	8.88	22		
1520	0.78	5.14	0.26	7.94	5.30	23.0	41	0.0	9.02	23	SLT.	
											CHANGE	
											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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1521	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): 59.56	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			
X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET									

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW832S | SAMPLE ID: | DATE: 8-20-14

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): 8.88 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.64 | GROUNDWATER ELEVATION (ft NGVD): 115.76

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 19.90 feet) + 0.05 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | PURGING INITIATED AT: 1532 | PURGING ENDED AT: 1552 | 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
1543	1.70	1.70	0.17	9.77	5.15	24.10	178	0.3	6.90	44		
1545	0.51	2.21	0.17	9.77	5.13	24.0	177	0.3	6.84	42		
1548	0.51	2.72	0.17	9.77	5.13	24.0	176	0.4	6.24	42		
1551	0.51	3.23	0.17	9.78	5.15	23.9	175	0.4	6.39	44	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./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: 1552 | SAMPLING ENDED AT: NR

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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW033S	SAMPLE ID:		DATE: 8-20-14

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): 10.61		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.90			GROUNDWATER ELEVATION (ft NGVD): 115.29		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (20.30 feet - 10.61 feet) X 0.163 gallons/foot = 1.58 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 = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	PURGING INITIATED AT: 1425	PURGING ENDED AT: 1445		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
1435	1.60	1.60	0.16	10.72	5.66	24.2	270	0.1	1.82	29		
1438	0.48	2.08	0.16	10.72	5.66	24.2	266	0.1	1.61	33		
1441	0.48	2.56	0.16	10.72	5.67	24.2	269	0.1	1.64	33	SLT.	
1444	0.48	3.04	0.16	10.72	5.67	24.2	268	0.1	1.78	33	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: 1445	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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW3345	SAMPLE ID:		DATE: 8-20-14

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): 9.88		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.78			GROUNDWATER ELEVATION (ft NGVD): 115.90		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.36 feet − 9.88 feet) X 0.163 gallons/foot = 1.38 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: 1352	PURGING ENDED AT: 1412		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
1403	1.60	1.60	0.16	10.68	6.11	25.0	719	0.0	1.65	-34		
1405	0.48	2.08	0.16	10.68	6.11	25.0	708	0.0	1.42	-35		
1408	0.48	2.56	0.16	10.68	6.12	25.0	704	0.0	1.49	-35		
1411	0.48	3.04	0.16	10.69	6.10	25.0	702	0.0	1.31	-34	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1412		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 13.36	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: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11S	SAMPLE ID:		DATE: 8.20.14

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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
14.50	14.50	1245	1304	3.23

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
1254	1.53	1.53	0.17	12.44	4.04	23.2	174	0.0	2.32	231		
1259	0.51	2.04	0.17	12.44	4.02	23.1	174	0.0	2.48	230		
1300	0.51	2.55	0.17	12.45	4.04	23.2	174	0.0	2.44	230		
1303	0.51	3.06	0.17	12.45	4.03	23.3	174	0.0	2.52	228	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" = 5.86
TUBING INSIDE DIA. CAPACITY (Gal./FL): 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: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1304	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 14.50	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			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B20S	SAMPLE ID:		DATE: 8-20-14

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): 8.20	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 121.01 GROUNDWATER ELEVATION (ft NGVD): 112.81

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: 1140	PURGING ENDED AT: 1200	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
1150	1.70	1.70	0.17	8.37	4.24	26.1	73	0.0	6.49	37		
1153	0.51	2.21	0.17	8.38	4.35	26.1	74	0.0	6.36	39		
1156	0.51	2.72	0.17	8.38	4.25	26.0	74	0.0	6.08	37		
1159	0.51	3.23	0.17	8.38	4.26	26.0	74	0.0	6.11	37	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./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: 1200	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: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW83S	SAMPLE ID:		DATE: 8-20-14

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): 8.61	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 154.38			GROUNDWATER ELEVATION (ft NGVD): 145.77	

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)
= 0.13 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: 1034	PURGING ENDED AT: 1054	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
1044	1.60	1.60	0.16	9.38	4.58	21.8	58	1.0	4.12	166		
1049	0.48	2.08	0.16	9.40	4.58	21.8	58	1.0	4.35	168		
1050	0.48	2.56	0.16	9.39	4.59	21.9	58	1.0	4.07	168		
1053	0.48	3.04	0.16	9.40	4.59	21.9	59	1.0	3.88	169	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: 1054	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: µm
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: NO SHEEN

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW22S	SAMPLE ID:		DATE: 8/20/14

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): 9.87	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 146.64			GROUNDWATER ELEVATION (ft NGVD): 136.77	

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: 1000	PURGING ENDED AT: 1020	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
1010	1.60	1.60	0.16	9.93	4.44	25.2	89	0.7	85.88	106		
1013	0.48	2.08	0.16	9.92	4.44	25.3	86	0.7	85.44	108		
1016	0.48	2.56	0.16	9.92	4.47	25.3	85	0.7	85.36	109		
1019	0.48	3.04	0.16	9.93	4.49	25.3	84	0.7	85.22	109	~~Heavy~~ 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: 1020	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N; FILTER SIZE: 1.00 µm; Filtration Equipment Type: IN LINE	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: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW821S	SAMPLE ID:		DATE: 8-20-14

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): 10.91	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 122.84			GROUNDWATER ELEVATION (ft NGVD): 111.93	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18.00 feet – 10.91 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 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: 0858	PURGING ENDED AT: 0918	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
0908	1.60	1.60	0.16	11.40	5.14	25.2	43	0.0	4.43	48		
0911	0.48	2.08	0.16	11.40	5.17	25.1	42	0.0	4.36	45		
0914	0.48	2.56	0.16	11.41	5.15	25.1	42	0.0	4.10	45		
0917	0.48	3.04	0.16	11.41	5.16	25.1	43	0.0	3.92	46	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: 0918	SAMPLING ENDED AT: NR
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: NO SHEEN

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)

640-48951

Revision Date: February 12, 2009

APPENDIX C
HYDRAULIC GRADIENT CALCULATIONS

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: ALM
Checked by: SSG
Reviewd by: RWP

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	135' contour	MWB-12(I)
Deep	MWB-31(D)	120' contour

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: ALM
Checked by: SSG
Reviewd by: RWP

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:

$$i = \frac{\text{140' contour - MWB-22(S)}}{\text{2500'}} = \frac{\text{140' - 114.40'}}{\text{2500'}}$$

$i = 0.010$ ft/ft

Intermediate gradient:

$$i = \frac{\text{135' contour - MWB-12(I)}}{\text{2200'}} = \frac{\text{135' - 116.64'}}{\text{2200'}}$$

$i = 0.008$ ft/ft

Deep gradient:

$$i = \frac{\text{MWB-31(D) -120' contour}}{\text{2300}} = \frac{\text{137.26' - 120'}}{\text{2300}}$$

$i = 0.008$ ft/ft

Average gradient:

$i = 0.009$ ft/ft

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by:	ALM
Checked by:	SSG
Reviewd by:	RWP

Horizontal Hydraulic Gradients:

Shallow horizontal gradient is	0.010	ft/ft
Intermediate horizontal gradient is	0.008	ft/ft
Deep horizontal gradient is	0.008	ft/ft
Average horizontal gradient is	0.009	ft/ft

Groundwater Flow Direction:

Groundwater flow is to the east, moving perpendicular to potentiometric contours from high to low hydraulic head values.

APPENDIX D
ADAPT DATA PACKAGE
(NOT INCLUDED IN PDF)

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 NED/16/00033628

(3) DEP Permit Number0013493-025-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.

10-2-2014
(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 E81005

Lab Name Test America, Inc.

Address 2846 Industrial Plaza Drive, Tallahassee, FL 32301

Phone Number (850)878-3994

Email address (if available) amy.atkins@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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