



REPORT

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

Trail Ridge Landfill

FDEP Permit Number 0013493-017-SO

WACS ID Number NED/16/00033628

5110 U.S. Highway 301

Duval County, Jacksonville, Florida 32234

Submitted To: Florida Department of Environmental Protection
Northeast District Office
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May 2014

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May 14, 2014

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

**RE: SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT
FOR THE MARCH 2014 MONITORING EVENT
TRAIL RIDGE LANDFILL, DUVAL COUNTY, FLORIDA
PERMIT NO. 0013493-017-SO**

Dear Mr. Durden:

Golder Associates Inc. (Golder) has prepared this report summarizing the March 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 0013493-017-SO 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





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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 0013493-017-SO issued September 16, 2009. 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 Specific Conditions 45 and 46 of the referenced permit, which follow the provisions of the Florida Administrative Code (F.A.C.) Chapters 62-160, 62-520, and 62-701. This report presents the methods and findings of the first 2014 semi-annual groundwater and surface water monitoring event conducted in March 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 Jacksonville 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. Leachate monitoring is scheduled to occur on an annual basis before September 30th; the resulting data is submitted in conjunction with the associated semi-annual groundwater and surface water monitoring report.

Figure 2 shows the Site layout and groundwater monitoring well and surface water sampling locations. The Site groundwater monitoring system consists of thirty-seven (37) groundwater monitoring wells screened at shallow (S), intermediate (I), and deep (D) depths within the uppermost, surficial aquifer. These include:

- Sixteen (16) shallow wells: MWB-2(S), MWB-3(S), MWB-7(S), MWB-11(S), MWB-12(S), MWB-13(S), MWB-17(S), MWB-19(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)
- Twelve (12) intermediate wells: MWB-2(I), MWB-3(I), MWB-7(I), MWB-11(I), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), MWB-32(I), MWB-34(I)
- Nine (9) deep wells: MWB-7(D), MWB-12(D), MWB-17(D), MWB-19(D), MWB-27(D), MWB-29(D), MWB-31(D), MWB-32(D), MWB-34(D)

Background wells MWB-2(S), MWB-3(S), MWB-2(I), MWB-3(I), and MWB-31(D) demonstrate background water quality for the facility because they are located upgradient from landfill waste. The remaining wells listed above are utilized for compliance or detection monitoring purposes associated with various phases of landfill development. The following table indicates which wells are associated with each phase and function (e.g., background, compliance, or detection).



Trail Ridge Groundwater Monitoring Program Details

Well Type	Well ID
Background Well Clusters	
Background	MWB-2(S), MWB-2(I), MWB-3(S), MWB-3(I), MWB-31(D)
Phase I	
Compliance	MWB-7(S), MWB-7(I), MWB-7(D), MWB-11(S), MWB-11(IR), MWB-12(S), MWB-12(I), MWB-12(D), <i>MWB-14(S)*, MWB-14(I)*, MWB-14(D)*</i> , MWB-19(S), MWB-19(I), MWB-19(D), MWB-20(S), MWB-21(S), MWB-22(S)
Phase II	
Compliance	MWB-17(S), MWB-17(I), MWB-17(D)
Phase III and Phase IV	
Compliance	MWB-13(S), MWB-13(I), <i>MWB-23(S)*</i>
Detection	MWB-33(S), MWB-34(S), MWB-34(I), MWB-34(D)
Phase V	
Compliance	<i>MWB-24(S)*, MWB-25(S)*, MWB-25(I)*, MWB-25(D)*, MWB-26(S)*</i> , MWB-27(S), MWB-27(I), MWB-27(D), MWB-29(S), MWB-29(I), MWB-29(D)
Detection	MWB-32(S), MWB-32(I), MWB-32(D)

As indicated in the permit, the nine wells shown above in italics with an asterisk (*) -- 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 three (3) surface water monitoring locations: SW-1, SW-2, and SW-3. Surface water monitoring location SW-1 is located in a wetland approximately 200 feet east of the facility's stormwater retention basin. SW-2 is located in an east-west trending drainage feature approximately 500 feet north of the landfill, and is considered a background water quality location because it does not receive surface water runoff from the landfill. SW-3 was established under the latest permit issuance at the discharge point of the Site stormwater pond approximately 700 feet east of the landfill boundary. 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 March 4, 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 using record drawing elevations to evaluate the general direction of groundwater flow in the uppermost aquifer underlying the Site. The calculations were performed by taking the difference between the measured depth to groundwater and the top of casing elevation surveyed for each well. Table 1 provides a summary of groundwater elevation data collected during the March 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 thirty-seven monitoring wells between March 4th and 5^h, 2014. Groundwater monitoring wells were purged with dedicated QED bladder pumps with Teflon-lined tubing extending to the top of the well casing. Purging continued at each location until approximately three times the volume of water in the well casing was removed. 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 March 6th, 2014 surface water samples were collected from three surface water monitoring points using a dipper or laboratory-provided container. Field parameters including pH, specific conductance, temperature, turbidity, dissolved oxygen, 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. In addition, surface water samples were tested for a select subset of dissolved metals based on previous detections, and SW-1 was resampled on March 27th, 2014. 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. Therefore, SW-1 was resampled. The FDEP was notified of this location correction on May 5, 2014 via telephone by Waste Management and in a notification letter dated May 8, 2014.



TestAmerica – Tallahassee, a Florida-certified laboratory, analyzed groundwater and surface water samples collected in March 2014 for the parameters identified in Attachments 6 and 9, respectively, of the facility permit as summarized in the following table. The full laboratory report and associated chain of custody records are included in Appendix B.

Laboratory Analyses for Trail Ridge Landfill Groundwater and Surface Water Samples

Sample Type	Analytical Parameter	Analysis Method
Groundwater	Total Ammonia - N	350.1
	Chlorides	300.0
	Iron	6010C
	Mercury	7470A
	Nitrate	353.2
	Sodium	6010C
	Total Dissolved Solids (TDS)	SM 2540C
	40 CFR Part 258 VOCs	8260C
	40 CFR Part 258 Metals	6020
Surface Water	Unionized Ammonia - N	Unionized NH3
	Total Hardness	SM 2340B
	Biochemical Oxygen Demand (BOD5)	SM 5210B
	Copper	6020
	Iron	6010C
	Mercury	1631E
	Nitrate	353.2, Nitrate by calc
	Zinc	6020
	Total Dissolved Solids (TDS)	SM 2540C
	Total Organic Carbon (TOC)	SM 5310C
	Fecal Coliform	SM 9222D
	Total Phosphates	SM 4500 P E
	Chlorophyll A	SM 10200H
	Total Nitrogen	9060
	Chemical Oxygen Demand (COD)	SM 5220D
	Total Suspended Solids (TSS)	SM 2540D
	40 CFR Part 258 VOCs – Appendix I	8260C
	40 CFR Part 258 Metals – Appendix I	6020



4.0 GROUNDWATER FLOW RATE AND DIRECTION EVALUATION

4.1 Groundwater Elevations and Flow Direction

Golder calculated groundwater elevations based on water levels measured on March 4, 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 March 2014 monitoring event shallow, intermediate, and deep wells within the surficial aquifer are shown in Appendix C. The shallow average horizontal hydraulic gradient for the March 2014 monitoring event was calculated between the 140-foot potentiometric contour and MWB-22(S) (Figure 3) along a flow path oriented perpendicular to the potentiometric contours. The intermediate average horizontal hydraulic gradient for the March 2014 monitoring event 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 for the March 2014 monitoring event 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 two field blanks during the March 2014 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound samples to Test America for analysis. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples (LCS), and matrix spike/matrix spike duplicates (MS/MSD). Golder evaluated the QA/QC results for the laboratory reports associated with groundwater and surface water monitoring points from TestAmerica Laboratory Report 640-47048-1. The following QA/QC issues were identified and, if necessary, qualified accordingly:

- 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 methylene chloride (batch 319036); associated results have been qualified with a "J" or "UJ", where results are non-detect.
- Surrogate recovery for MWB-27(I) was outside the upper control limit. This sample did not contain any target analytes; therefore, the associated data are considered acceptable.
- Ammonia was detected in Field Blank 01 at 0.077 milligrams per liter (mg/L) and Field Blank 02 at 0.067 mg/L.
- Acetone was detected in Trip Blank 03 and Trip Blank 04 between method detection limits (MDLs) and practical quantitation limits (PQLs); these detections were qualified with an "I".

As indicated above, TestAmerica qualified results for detections between the MDL and the PQL (I), and LCS/LCSD recoveries outside control limits (J or UJ). The laboratory did not qualify data based on field detections. There were no detections in method blanks. In addition, the subcontract laboratory (Diversified Environmental Laboratories, Inc.) qualified fecal coliform results for SW-1 and SW-3 results based on colony counts outside the acceptable range (B). Coliform in the SW-1 resample was qualified that too many colonies were present and that the numeric value represents the filtration volume (Z).

No other QA/QC issues were identified during data validation; therefore, the remaining results from the March 2014 event are considered acceptable without qualification.



5.2 Laboratory Analysis Results

Tables 2A through 3 summarize laboratory analytical results for groundwater and surface water samples collected during the March 2014 monitoring event for Trail Ridge Landfill. 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. The average pH increases with depth among the shallow, intermediate, and deep zones of the aquifer. The deep groundwater likely has higher pH values than the shallow wells due to carbonate rock buffering deeper in the aquifer. Conversely, dissolved oxygen concentrations tend to decrease with depth as less mixing occurs with shallow oxygenated recharge water. Turbidity values were lower than 20 nephelometric turbidity units (NTU).

Surface water field parameter readings and observations are within the historic range of 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 March 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, pH and TDS at one or more wells. These exceedances are summarized below.

Iron (SMCL 0.3 mg/L)

- Shallow wells: MWB-11(S), MWB-13(S), MWB-19(S), MWB-21(S), MWB-29(S), MWB-32(S), MWB-34(S), and background well MWB-3(S)
- Intermediate wells: MWB-7(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), MWB-32(I), and MWB-34(I), and background wells MWB-2(I) and MWB-3(I)



- Deep wells: MWB-7(D), MWB-12(D), MWB-17(D), MWB-19(D), MWB-27(D), MWB-29(D), MWB-32(D), and MWB-34(D), and background well MWB-31(D)

pH (SMCL 6.5 to 8.5)

- Shallow wells: All measured background, compliance, and detection wells were below 6.5
- Intermediate wells: All background, compliance, and detection wells were below 6.5
- Deep wells: MWB-17(D), MWB-27(D), MWB-29(D), and MWB-32(D) were below 6.5

TDS (SMCL 500 mg/L)

- Shallow well: MWB-34(S)

The above parameters 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.

Previous groundwater monitoring reports attributed elevated TDS concentrations in MWB-34(S) to periodic leachate pump issues that occurred between 2005 and 2007. TDS concentrations in MWB-34(S) have generally decreased since 2008, which indicates that conditions have improved.

6.2 Surface Water

6.2.1 Established Standards

Facility permit condition 46.d 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 March 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):

- Beryllium at SW-2
- Iron at SW-1 and SW-3
- Lead at SW-1 and SW-3
- pH at SW-1 and SW-2
- Turbidity at SW-3

The parameters above have been historically detected at concentrations exceeding the applicable SMCL. In addition, lead did not exceed the calculated WQS from the dissolved sample at SW-3, or the sample collected at SW-1 during the March 2014 resampling event. Fecal coliform counts at SW-1, SW-2 and SW-3 did not exceed the Class I/III maximum daily criteria (800 cfu/mL) or the monthly average criteria (200 cfu/mL).



7.0 DISCUSSION AND RECOMMENDATIONS

During the most recent event, several analytes were detected in groundwater and/or surface water at concentrations exceeding applicable drinking water and/or surface water quality standards. These include iron, pH, and TDS for groundwater; and beryllium, iron, lead, pH, and turbidity for surface water. All of the above parameters have been historically detected at concentrations exceeding the applicable SMCL. In addition, lead did not exceed the calculated WQS from the dissolved sample at SW-3, or the sample collected at SW-1 during the March 2014 resampling event. Detections for the most recent event were all within the historical range of concentrations observed at the Site.

Iron was the most commonly detected parameter in both groundwater and surface water. Iron has been historically detected in background/upstream and downgradient/downstream locations at concentrations exceeding SMCLs and surface water quality standards. In groundwater, iron concentrations typically increase with depth. Previous monitoring reports have attributed this to reduction processes in the deeper surficial aquifer, where insoluble ferric iron is converted to soluble ferrous iron. This process results in a shift in groundwater pH from acidic to a more neutral state (i.e., closer to 7). This is consistent with observed groundwater pH values, which are lower (i.e., more acidic) near the surface and tend to increase with depth. In surface water, iron concentrations are consistent with those observed in surrounding soils in the region and can be explained by the local vegetative cover. The other metal(s) detected in surface water (e.g., beryllium, cadmium, cobalt) are naturally occurring in soil, and may be correlated to turbidity in conjunction with naturally occurring low pH.

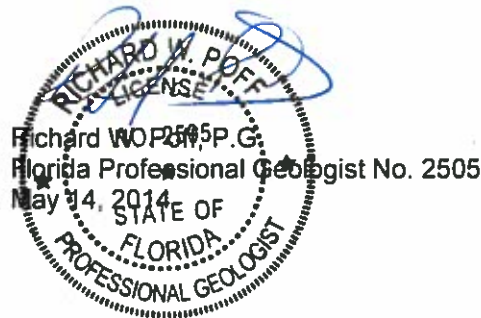
Analyte detections and standard exceedances observed during this event for both groundwater and surface water are consistent with historical conditions and/or background water quality. Based on these findings, Golder recommends continued semi-annual detection monitoring in accordance with F.A.C. Chapter 62-701 and the facility permit. The next groundwater, surface water, and leachate monitoring event should be conducted prior to September 30, 2014.



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.





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, Division of Waste Management, Document Management System (OCULUS), Accessed May 2011.

Florida Department of Environmental Protection, Notice of Permit, September 16, 2009, Permit Number 0013493-017-SO.

HDR Engineering, Inc., October 2010, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-017-SO.

HDR Engineering, Inc., April 2010, Semiannual Water Quality Data Report, Trail Ridge Landfill, Operating Permit No. 0013493-017-SO.

HDR Engineering, Inc., October 2009, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-010-SC.

HDR Engineering, Inc., April 2009, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-010-SC.

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TABLES

TABLE 1
Water Level Measurements
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Well ID	TOC Elevation	Screened Interval	Depth to Water	Groundwater Elevation
	(ft MSL)	(ft BTOC)	(ft BTOC)	(ft MSL)
Shallow Wells				
MWB-2(S)	146.64	10.00 to 20.00	7.97	138.67
MWB-3(S)	154.38	10.00 to 20.00	6.89	147.49
MWB-7(S)	123.29	10.00 to 20.00	7.33	115.96
MWB-11(S)	120.81	9.50 to 19.50	11.21	109.60
MWB-12(S)	124.63	14.50 to 24.50	9.65	114.98
MWB-13(S)	126.05	16.56 to 26.56	12.36	113.69
MWB-17(S)	138.31	13.30 to 18.30	6.38	131.93
MWB-19(S)	127.38	10.00 to 20.00	6.13	121.25
MWB-20(S)	121.01	10.00 to 20.00	7.08	113.93
MWB-21(S)	122.84	13.00 to 18.00	10.15	112.69
MWB-22(S)	126.97	16.00 to 26.00	11.35	115.62
MWB-27(S)	128.42	10.50 to 15.50	6.49	121.93
MWB-29(S)	138.02	10.00 to 20.00	7.98	130.04
MWB-32(S)	124.64	14.90 to 19.90	7.93	116.71
MWB-33(S)	125.90	10.30 to 20.30	9.81	116.09
MWB-34(S)	125.78	13.36 to 18.36	8.55	117.23
Intermediate Wells				
MWB-2(I)	145.73	51.50 to 61.50	9.55	136.18
MWB-3(I)	151.86	52.00 to 62.00	12.45	139.41
MWB-7(I)	121.53	55.00 to 65.00	2.87	118.66
MWB-11(IR)	120.43	45.00 to 55.00	10.47	109.96
MWB-12(I)	124.62	61.50 to 71.50	6.72	117.90
MWB-13(I)	125.98	50.40 to 60.40	16.80	109.18
MWB-17(I)	138.43	50.13 to 60.13	2.66	135.77
MWB-19(I)	127.94	49.00 to 59.00	6.50	121.44
MWB-27(I)	128.63	52.50 to 62.50	5.51	123.12
MWB-29(I)	138.08	53.50 to 63.50	5.95	132.13
MWB-32(I)	124.79	54.56 to 64.56	6.52	118.27
MWB-34(I)	125.80	43.95 to 53.95	7.79	118.01
Deep Wells				
MWB-7(D)	121.65	107.00 to 117.00	0.55	121.10
MWB-12(D)	124.56	102.00 to 112.00	4.28	120.28
MWB-17(D)	138.52	117.32 to 127.32	6.56	131.96
MWB-19(D)	128.23	105.50 to 115.50	6.30	121.93
MWB-27(D)	128.88	110.00 to 110.00	5.90	122.98
MWB-29(D)	138.18	100.50 to 110.50	6.04	132.14
MWB-31(D)	156.15	119.00 to 129.00	17.30	138.85
MWB-32(D)	124.93	98.81 to 108.81	6.76	118.17
MWB-34(D)	125.92	90.78 to 100.78	7.93	117.99

Notes:

TOC - top of casing; ft BTOC - feet below top of casing; ft MSL - feet above mean sea level; NM - not measured because well was dry

Depth to water measurements collected by ProTech on March 4, 2014. Top of casing elevations based on groundwater well survey data provided in October 2010 potentiometric maps (HDR Engineering).

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

Parameter	Unit	MCL	SMCL	MWB-2(S)b	MWB-3(S)b	MWB-7(S)c	MWB-11(S)c	MWB-12(S)c	MWB-13(S)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	8.1	10	14	24	8.7	34
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			72	54	250	150	380	370
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		0.25	< 0.01	< 0.01	0.077	0.29	0.25
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		0.25	< 0.01	< 0.01	0.077	0.29	0.25
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		9.8	13	4.3 I	92	5.2	6.1
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	0.26 I	< 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	4.4 I	3.7 I
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	0.61	< 0.15	0.19 I
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1 I	1.9 I
Iron	ug/L		300	160	430	87 I	630	120	440
Lead	ug/L	15		< 0.2	< 0.2	0.27 I	< 0.2	0.57 I	0.46 I
Nickel	ug/L	100		< 2	< 2	< 2	< 2	2.1 I	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1	9.3	4.5
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		4400	5200	12000	15000	5800	28000
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	4.8 I	< 3.8 I	41	37
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0053	< 0.0052	< 0.0053	< 0.0052	< 0.0052
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023
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	6.5 I	< 5	< 5

Notes:

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

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

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

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

Parameter	Unit	MCL	SMCL	MWB-17(S)c	MWB-19(S)c	MWB-20(S)c	MWB-21(S)c	MWB-22(S)c	MWB-27(S)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	5.7	13	8.2	7.7	12	13
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			130	500	320	1100	370	420
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.01	< 0.01	0.37	< 0.01	< 0.01	1.8
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	0.37	< 0.01	< 0.01	1.8
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	78	12	26	4 I	32
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	< 2.5
Cobalt	ug/L			< 0.15	0.3 I	0.2 I	< 0.15	< 0.15	0.16 I
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	260	1300	250	790	99 I	100
Lead	ug/L	15		< 0.2	< 0.2	0.65 I	< 0.2	< 0.2	0.34 I
Nickel	ug/L	100		< 2	< 2	< 2	< 2	< 2	< 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		4200	11000	7000	4300	9900	12000
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	5.6 I	< 3.8	< 3.8	5.1 I
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0052	< 0.0053	< 0.0053	< 0.0055	< 0.0054	< 0.0053
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0023	< 0.0023	< 0.0024	< 0.0024	< 0.0023
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

Notes:

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Parameter	Unit	MCL	SMCL	MWB-29(S)c	MWB-32(S)d	MWB-33(S)d	MWB-34(S)d
Laboratory Method EPA 300.0							
Chloride	mg/L		250	12	28	13	59
Laboratory Method EPA 350.1							
Ammonia (N)	ug/L			280	950	930	2000
Laboratory Method EPA 353.2 (Nitrate (N))							
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))							
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 6020							
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		24	49	16	5.2
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	3.3 I
Cobalt	ug/L			0.23 I	0.69	0.21 I	0.79
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	650	1500	210	370
Lead	ug/L	15		< 0.2	0.86 I	< 0.2	< 0.2
Nickel	ug/L	100		< 2	< 2	< 2	8.5
Selenium	ug/L	50		< 1	< 1	< 1	1.1 I
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		8700	22000	12000	96000
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	4.3 I	6.9 I	14
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	33
Laboratory Method EPA 7470							
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011							
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0054	< 0.0053	< 0.005
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0024	< 0.0023	< 0.0022
Laboratory Method EPA 8260							
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L	200		< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7		< 0.11	< 0.11	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 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
1,2-Dibromoethane	ug/L	0.02		< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L	600		< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	ug/L	3		< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichloropropane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L	75		< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1
Acetone	ug/L			< 5	< 5	< 5	< 5

Notes:

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

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

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

Parameter	Unit	MCL	SMCL	MWB-2(S)b	MWB-3(S)b	MWB-7(S)c	MWB-11(S)c	MWB-12(S)c	MWB-13(S)c
Laboratory Method EPA 8260									
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2
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 UJ	< 1 UJ	< 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	< 0.28	< 0.28
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 SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	37	18	110	42	210	300

Notes:

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Parameter	Unit	MCL	SMCL	MWB-17(S)c	MWB-19(S)c	MWB-20(S)c	MWB-21(S)c	MWB-22(S)c	MWB-27(S)c
Laboratory Method EPA 8260									
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2
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	< 0.28	< 0.28
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 SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	54	93	73	69	230	110

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-29(S)c	MWB-32(S)d	MWB-33(S)d	MWB-34(S)d
Laboratory Method EPA 8260							
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2
Benzene	ug/L	1		< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 0.6	0.81 I	< 0.6	< 0.6
Carbon tetrachloride	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L	100		< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2
Chloroform	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L	70		< 0.15	< 0.15	< 0.15	< 0.15
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1
Methylene chloride	ug/L	5		< 1	< 1	< 1	< 1 UJ
Styrene	ug/L	100		< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L	1000		< 0.33	< 0.33	< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L	100		< 0.2	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/L	3		< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28	< 0.28	< 0.28
Vinyl chloride	ug/L	1		< 0.18	< 0.18	< 0.18	< 0.18
Xylenes, Total	ug/L	10000		< 0.2	< 0.2	< 0.2	< 0.2
Laboratory Method SM18 2540 C							
Residues- Filterable (TDS)	mg/L		500	62	140	370	<u>530</u>

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-2(I)b	MWB-3(I)b	MWB-7(I)c	MWB-11(I)c	MWB-12(I)c	MWB-13(I)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	7.8	6.3	5.4	5.6	5.2	5.3
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			82	150	73	130	75	100
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.01	< 0.01	1.1	< 0.01	0.016 I	0.036 I
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	1.1	< 0.01	0.016 I	0.036 I
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		22	27	48	53	57	36
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	6.9	< 2.5	< 2.5
Cobalt	ug/L			0.19 I	< 0.15	< 0.15	0.16 I	< 0.15	0.2 I
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	440	820	410	600	330	530
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	1.6	< 0.2	0.49 I
Nickel	ug/L	100		< 2	< 2	< 2	< 2	< 2	< 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		5100	3800	3400	3400	3800	3800
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	11	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0054	< 0.0054	< 0.0052	< 0.0053	< 0.0053
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0024	< 0.0024	< 0.0023	< 0.0023	< 0.0023
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	< 7.2	< 7.2
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

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-17(I)c	MWB-19(I)c	MWB-27(I)c	MWB-29(I)c	MWB-32(I)d	MWB-34(I)d
Laboratory Method EPA 300.0									
Chloride	mg/L		250	5	5.4	5.3	6.1	5.2	5.5
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			45 I	56	77	110	86	78
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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		41	71	51	52	47	49
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	0.6	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	3.3 I	< 2.5	< 2.5	3.7 I	< 2.5
Cobalt	ug/L			< 0.15	2.5	< 0.15	< 0.15	0.22 I	0.19 I
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	360	960	530	490	540	500
Lead	ug/L	15		< 0.2	0.85 I	0.43 I	0.72 I	5.7	0.62 I
Nickel	ug/L	100		< 2	4.7 I	< 2	< 2	< 2	< 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		4000	4100	3700	4500	3700	3400
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	5 I	< 3.8	< 3.8	5.1 I	< 3.8
Zinc	ug/L		5000	< 8.3	15 I	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0053	< 0.0051	< 0.0053	< 0.0054	< 0.0051
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0023	< 0.0022	< 0.0023	< 0.0024	< 0.0023
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	< 7.2	< 7.2
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

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-2(I)b	MWB-3(I)b	MWB-7(I)c	MWB-11(I)c	MWB-12(I)c	MWB-13(I)c
Laboratory Method EPA 8260									
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 UJ	< 1 UJ	< 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	< 0.28	< 0.28
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 SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	20	24	28	31	35	41

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-17(I)c	MWB-19(I)c	MWB-27(I)c	MWB-29(I)c	MWB-32(I)d	MWB-34(I)d
Laboratory Method EPA 8260									
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 UJ
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	< 0.28	< 0.28
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 SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	64	51	31	45	56	37

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-7(D)c	MWB-12(D)c	MWB-17(D)c	MWB-19(D)c	MWB-27(D)c
Laboratory Method EPA 300.0								
Chloride	mg/L		250	4.4	4.2	6.3	4.5	5.8
Laboratory Method EPA 350.1								
Ammonia (N)	ug/L			400	280	87	110	96
Laboratory Method EPA 353.2 (Nitrate (N))								
Nitrate (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	0.023 I
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))								
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	0.023 I
Laboratory Method EPA 6020								
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	1.7 I	< 1.3
Barium	ug/L	2000		82	130	33	110	52
Beryllium	ug/L	4		< 0.25	< 0.25	0.28 I	0.31 I	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	0.18 I	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	3.1 I	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	0.38 I	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	340	820	350	2200	730
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	0.57 I	< 0.2
Nickel	ug/L	100		< 2	< 2	< 2	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		5200	5800	3900	5000	3700
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	5.9 I	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470								
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011								
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0053	< 0.0054	< 0.0053	< 0.0053	< 0.0054
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0024	< 0.0023	< 0.0023	< 0.0024
Laboratory Method EPA 8260								
1,1,1,2-Tetrachloroethane	ug/L			< 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
1,1,2,2-Tetrachloroethane	ug/L			< 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
1,1-Dichloroethane	ug/L			< 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
1,2,3-Trichloropropane	ug/L			< 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
1,2-Dibromoethane	ug/L	0.02		< 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
1,2-Dichloroethane	ug/L	3		< 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
1,4-Dichlorobenzene	ug/L	75		< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1	< 1
Acetone	ug/L			< 5	< 5	< 5	< 5	< 5
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2	< 7.2
Benzene	ug/L	1		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 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
Chlorobenzene	ug/L	100		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2	< 2
Chloroform	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L			< 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

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-29(D)c	MWB-31(D)b	MWB-32(D)d	MWB-34(D)d
Laboratory Method EPA 300.0							
Chloride	mg/L		250	6.4	5.4	5.4	5
Laboratory Method EPA 350.1							
Ammonia (N)	ug/L			170	360	180	250
Laboratory Method EPA 353.2 (Nitrate (N))							
Nitrate (N)	mg/L	10		0.33	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))							
Nitrate-Nitrite (N)	mg/L	10		0.33	< 0.01	< 0.01	< 0.01
Laboratory Method EPA 6020							
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		62	98	63	100
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	1.6 I	< 1.1	< 1.1
Iron	ug/L		300	760	940	690	520
Lead	ug/L	15		< 0.2	0.57 I	< 0.2 I	< 0.2
Nickel	ug/L	100		< 2	< 2	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		4500	7100	5300	6500
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470							
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011							
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0052	< 0.0052	< 0.0054	< 0.0053
1,2-Dibromoethane	ug/L	0.02		< 0.0023	< 0.0023	< 0.0024	< 0.0023
Laboratory Method EPA 8260							
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L	200		< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7		< 0.11	< 0.11	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 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
1,2-Dibromoethane	ug/L	0.02		< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L	600		< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	ug/L	3		< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichloropropane	ug/L	5		< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L	75		< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1
Acetone	ug/L			< 5	< 5	< 5	< 5
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2
Benzene	ug/L	1		< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 0.6	< 0.6	< 0.6	< 0.6
Carbon tetrachloride	ug/L	3		< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L	100		< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2
Chloroform	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L	70		< 0.15	< 0.15	< 0.15	< 0.15

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-7(D)c	MWB-12(D)c	MWB-17(D)c	MWB-19(D)c	MWB-27(D)c
Laboratory Method EPA 8260								
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1	< 1
Methylene chloride	ug/L	5		< 1	< 1	< 1	< 1	< 1
Styrene	ug/L	100		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L	1000		< 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
trans-1,3-Dichloropropene	ug/L			< 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
Trichloroethene	ug/L	3		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Vinyl chloride	ug/L	1		< 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
Laboratory Method SM18 2540 C								
Residues- Filterable (TDS)	mg/L		500	160	240	68	220	55

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	MCL	SMCL	MWB-29(D)c	MWB-31(D)b	MWB-32(D)d	MWB-34(D)d
Laboratory Method EPA 8260							
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1
Methylene chloride	ug/L	5		< 1	< 1 UJ	< 1	< 1 UJ
Styrene	ug/L	100		< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L	1000		< 0.33	< 0.33	< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L	100		< 0.2	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/L	3		< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28	< 0.28	< 0.28
Vinyl chloride	ug/L	1		< 0.18	< 0.18	< 0.18	< 0.18
Xylenes, Total	ug/L	10000		< 0.2	< 0.2	< 0.2	< 0.2
Laboratory Method SM18 2540 C							
Residues- Filterable (TDS)	mg/L		500	71	180	100	210

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; Underlined values indicate a WQS exceedance.

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

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

Parameter	Unit	Class I WQS	Class III WQS	SW-1	SW-2	SW-3	SW-1
				March 2014 Sampling			Resampling
Laboratory Method EPA 1631							
Mercury	ug/L	0.012	0.012	0.0014 I	< 0.001	0.0087	0.0029 I
Laboratory Method EPA 353.2 (Nitrate (N))							
Nitrate (N)	mg/L	10		< 0.01	0.094	0.33	0.15
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))							
Nitrate-Nitrite (N)	mg/L			< 0.01	0.094	0.33	< 0.01
Laboratory Method EPA 365.4							
Phosphorus- Total	mg/L			< 0.041	< 0.041	0.07 I	< 0.041
Laboratory Method EPA 6020							
Antimony	ug/L	14	4300	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10	50	< 1.3	< 1.3	1.7 I	< 1.3
Barium	ug/L	1000		47	110	50	26
Beryllium	ug/L	0.0077	0.13	< 0.25	0.54	< 0.25	< 0.25
Cadmium	ug/L	Calc	Calc	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	Calc	Calc	3.1 I	< 2.5	5.9	< 2.5
Cobalt	ug/L			0.49 I	0.19 I	0.48 I	0.17 I
Copper	ug/L	Calc	Calc	1.8 I	< 1.1	4.9 I	< 1.1
Iron	ug/L	1000	1000	1600	650	1100	180
Lead	ug/L	Calc	Calc	2.6	< 0.2	10	1.2 I
Nickel	ug/L	Calc	Calc	< 2	< 2	3.4 I	< 2
Selenium	ug/L	5	5	< 1	< 1	1.4 I	< 1
Silver	ug/L	0.07	0.07	< 0.25	< 0.25	< 0.25	< 0.25
Thallium	ug/L	1.7	6.3	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			4.9 I	5.1 I	11	< 3.8
Zinc	ug/L	Calc	Calc	18 I	< 8.3	17 I	< 8.3
Laboratory Method EPA 6020							
Antimony, dissolved	ug/L	14	4300	--	--	--	--
Arsenic, dissolved	ug/L	10	50	--	--	1.4 I	--
Barium, dissolved	ug/L	1000		43	97	40	--
Beryllium, dissolved	ug/L	0.0077	0.13	--	0.48 I	--	--
Cadmium, dissolved	ug/L	Calc	Calc	--	--	--	--
Chromium, dissolved	ug/L	Calc	Calc	< 2.5	--	< 2.5	--
Cobalt, dissolved	ug/L			0.83	0.29 I	0.25 I	--
Copper, dissolved	ug/L	Calc	Calc	3.4 I	--	4.3 I	--
Iron, dissolved	ug/L	1000	1000	1400	540	61 I	--
Lead, dissolved	ug/L	Calc	Calc	2.0	--	0.49 I	--
Nickel, dissolved	ug/L	Calc	Calc	--	--	4.1 I	--
Selenium, dissolved	ug/L	5	5	--	--	1.0 I	--
Silver, dissolved	ug/L	0.07	0.07	--	--	--	--
Thallium, dissolved	ug/L	1.7	6.3	--	--	--	--
Vanadium, dissolved	ug/L			4.2 I	4.4 I	4.6 I	--
Zinc, dissolved	ug/L	Calc	Calc	27	--	13 I	--

Notes:

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; B = Results based on count outside range; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

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)

Underlined values indicate a WQS exceedance.

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

Parameter	Unit	ClassIOut	ClassIIIOut	SW-1	SW-2	SW-3	SW-1
				March 2014 Sampling			Resampling
Laboratory Method EPA 8011							
1,2-Dibromo-3-Chloropropane	ug/L			< 0.0053	< 0.0051	< 0.0052	< 0.0052
1,2-Dibromoethane	ug/L			< 0.0023	< 0.0023	< 0.0023	< 0.0023
Laboratory Method EPA 8260							
1,1,1,2-Tetrachloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
1,1,1-Trichloroethane	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L	0.17	10.8	< 0.18	< 0.18	< 0.18	< 0.18
1,1,2-Trichloroethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13
1,1-Dichloroethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethene	ug/L	7	3.2	< 0.11	< 0.11	< 0.11	< 0.11
1,2,3-Trichloropropane	ug/L			< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane	ug/L			< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dibromoethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichlorobenzene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	ug/L			< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichloropropane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13
1,4-Dichlorobenzene	ug/L			< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone	ug/L			< 1	< 1	< 1	< 1
2-Hexanone	ug/L			< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1	< 1	< 1	< 1
Acetone	ug/L			5.8 I	6.0 I	5.3 I	<5.0
Acrylonitrile	ug/L			< 7.2	< 7.2	< 7.2	< 7.2
Benzene	ug/L	1.18	71.28	< 0.25	< 0.25	< 0.25	< 0.25
Bromochloromethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Bromodichloromethane	ug/L	0.27	22	< 0.25	< 0.25	< 0.25	< 0.25
Bromoform	ug/L	4.3	360	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	ug/L			< 2	< 2	< 2	< 2
Carbon disulfide	ug/L			< 0.6	< 0.6	< 0.6	< 0.6
Carbon tetrachloride	ug/L	3	4.42	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/L			< 2	< 2	< 2	< 2
Chloroform	ug/L	5.67	470.8	< 0.14	< 0.14	< 0.14	< 0.14
Chloromethane	ug/L	5.67	470.8	< 0.33	< 0.33	< 0.33	< 0.33
cis-1,2-Dichloroethene	ug/L			< 0.15	< 0.15	< 0.15	< 0.15
cis-1,3-Dichloropropene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
Dibromochloromethane	ug/L	0.41	34	< 0.1	< 0.1	< 0.1	< 0.1
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
Iodomethane	ug/L			< 1	< 1	< 1	< 1
Methylene chloride	ug/L	4.65	1580	< 1	< 1	< 1	< 1
Styrene	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
Tetrachloroethene	ug/L	3	8.85	< 0.15	< 0.15	< 0.15	< 0.15
Toluene	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
trans-1,2-Dichloroethene	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
trans-1,4-Dichloro-2-butene	ug/L			< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/L	3	80.7	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	ug/L			< 0.25	< 0.25	< 0.25	< 0.25
Vinyl acetate	ug/L			< 0.28	< 0.28	< 0.28	< 0.28
Vinyl chloride	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
Xylenes, Total	ug/L			< 0.2	< 0.2	< 0.2	< 0.2

Notes:

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; B = Results based on count outside range; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

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)

Underlined values indicate a WQS exceedance.

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

Parameter	Unit	Class I Out	Class III Out	SW-1	SW-2	SW-3	SW-1
				March 2014 Sampling			Resampling
Laboratory Method FDEP DEP-SOP							
Ammonia- Un-ionized (NH ₃)	ug/L	20	20	< 0.28	< 0.28	3.7	1.4
Laboratory Method SM18 10200 H							
Chlorophyll a	ug/L			5.9	0.53	31	2.1
Laboratory Method SM18 2340 B							
Hardness- Calculated	mg/L			22	13	160	120
Laboratory Method SM18 2540 C							
Residues- Filterable (TDS)	mg/L			170	22	260	270
Laboratory Method SM18 2540 D							
Residues- Nonfilterable (TSS)	mg/L			5.5	5.0	24	9.0
Laboratory Method SM18 4500-P F							
Orthophosphate (P)	mg/L			< 0.016	< 0.016	< 0.016	< 0.016
Laboratory Method SM18 5210 B							
BOD	mg/L			< 2	< 2	2.8	<2
Laboratory Method SM18 5220 D							
Chemical Oxygen Demand	mg/L			87	27	30	81 I
Laboratory Method SM18 5310 C							
Carbon- Total Organic	mg/L			46	15	16	18
Laboratory Method SM18 9222 D (MF)							
Coliform Fecal	CFU/100 mL	800	800	67 B	410	575 B	600 Z
Laboratory Method Total Nitrogen							
Nitrogen- Total	mg/L			1.3	0.6	2.6	1.7

Notes:

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; B = Results based on count outside range; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank; Z = Too many colonies were present in sample and the numeric value represents the filtration volume.

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)

Underlined values indicate a WQS exceedance.

**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	--	--	--	--	--	--
Surface Water Class I/III :	Vary 1 Unit	<5.0	1,275 or 50%	--	29 > BG	--	--
Shallow Wells							
MWB-2(S)	4.45	0.7	62	17.0	2.93	None	None
MWB-3(S)	4.54	0.8	56	18.5	3.16	None	None
MWB-7(S)	5.30	0.0	160	21	8.40	Brown Tint	None
MWB-11(S)	3.98	0.0	191	20.8	2.96	None	None
MWB-12(S)	5.74	0.4	242	20.8	6.68	Very Light Brown Tint	None
MWB-13(S)	5.86	0.5	409	20.1	8.73	Very Light Yellow/Brown Tint	None
MWB-17(S)	5.38	0.0	46	21.7	6.31	Very Light Brown Tint	None
MWB-19(S)	4.66	0.0	108	21.8	3.47	None	None
MWB-20(S)	4.25	0.0	81	19.7	6.14	None	None
MWB-21(S)	5.11	0.0	81	21.6	3.30	None	None
MWB-22(S)	5.91	0.2	287	20.7	4.01	None	None
MWB-27(S)	5.11	0.0	167	17.8	7.32	Very Light Brown Tint	None
MWB-29(S)	4.33	0.3	70	17.5	1.68	None	None
MWB-32(S)	5.08	0.4	201	20.0	9.21	Light Brown Tint	None
MWB-33(S)	5.57	0.2	294	20.2	3.46	None	None
MWB-34(S)	6.04	0.0	828	21.3	2.30	Yellow Tint	None
Intermediate Wells							
MWB-2(I)	4.77	0.4	38	20.6	4.21	None	None
MWB-3(I)	4.81	0.0	37	21.2	2.04	None	None
MWB-7(I)	5.17	0.0	38	23.1	1.68	None	None
MWB-11(IR)	4.76	0.0	36	24.6	9.95	Brown Tint	None
MWB-12(I)	5.26	0.1	37	25.2	2.11	None	None
MWB-13(I)	5.16	0.1	34	25.9	3.82	None	None
MWB-17(I)	4.82	0.0	30	22.4	1.85	None	None
MWB-19(I)	4.94	0.0	34	22.9	7.40	None	None
MWB-27(I)	5.47	0.0	49	20.7	4.54	None	None
MWB-29(I)	5.10	0.3	38	22.7	7.25	None	None
MWB-32(I)	5.25	0.0	40	21.7	16.99	White Tint	None
MWB-34(I)	5.31	0.0	42	25.4	5.00	None	None
Deep Wells							
MWB-7(D)	7.37	0.0	326	22.5	1.92	None	None
MWB-12(D)	7.14	0.0	364	23.7	3.97	None	None
MWB-17(D)	5.38	0.0	49	22.5	1.83	None	None
MWB-19(D)	6.95	0.0	346	22.3	4.89	None	None
MWB-27(D)	5.94	0.0	83	20.3	1.81	None	None
MWB-29(D)	5.47	0.0	62	22.2	2.04	None	None
MWB-31(D)	6.90	0.0	344	22.1	4.82	None	None
MWB-32(D)	6.01	0.2	132	21.7	2.69	None	None
MWB-34(D)	7.29	0.0	408	24.2	1.36	None	None
Surface Water March 2013 Event							
SW-1	4.48	5.2	101	13.3	4.31	Yellow Tint	None
SW-2	4.26	6.1	67	15.6	3.19	Yellow Tint	None
SW-3	7.20	5.1	362	15.1	23.94	Brown	None
Surface Water March 2013 Resampling Event							
SW-1	6.76	6.8	345	13.5	37.0	Brown 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

Underlined values indicate a WQS exceedance.

Measurements collected by ProTech in March 2014.

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

Parameter	Units	WQS Class I & Class III	SW-1			SW-2			SW-3			Total Hardness ¹ InH ²
			22 (25*)			13 (25*)			160			
			3.22			3.22			5.08			
			Result (total)	Result (dissolved)	Standard	Result (total)	Result (dissolved)	Standard	Result (total)	Result (dissolved)	Standard	
Cadmium	ug/L	Measured ≤ e ^(0.7409[lnH]-4.719)	<0.095	--	0.1	<0.095	--	0.10	<0.095	--	0.4	
Chromium	ug/L	Measured ≤ e ^(0.819[lnH]+0.6848)	3.1 I	<0.25	28	<2.5	--	28	5.9	<0.25	127	
Copper	ug/L	Measured ≤ e ^(0.8545[lnH]-1.702)	1.8 I	<u>3.4 I</u>	2.9	<1.1	--	2.9	4.9 I	4.3 I	14	
Lead	ug/L	Measured ≤ e ^(1.273[lnH]- 4.705)	<u>2.6</u>	<u>2.0</u>	0.5	<0.2	--	0.5	<u>10</u>	0.49 I	5.8	
Nickel	ug/L	Measured ≤ e ^(0.846[lnH]+0.0584)	<2	--	16	<2	--	16	3.4 I	4.1 I	78	
Zinc	ug/L	Measured ≤ e ^(0.8473[lnH]+0.884)	18 I	27	37	<8.3	--	37	17 I	13 I	178	

March 2014 Resampling Event

Parameter	Units	WQS Class I & Class III	SW-1		Total Hardness ¹ InH ²
			120		
			4.79		
		Result	Standard		
Cadmium	ug/L	Measured $\leq e^{(0.7409[\ln H]-4.719)}$	<0.095	0.3	
Chromium	ug/L	Measured $\leq e^{(0.819[\ln H]+0.6848)}$	<2.5	100.1	
Copper	ug/L	Measured $\leq e^{(0.8545[\ln H]-1.702)}$	< 1.1	10.9	
Lead	ug/L	Measured $\leq e^{(1.273[\ln H]- 4.705)}$	1.2 I	4.0	
Nickel	ug/L	Measured $\leq e^{(0.846[\ln H]+0.0584)}$	<2	60.9	
Zinc	ug/L	Measured $\leq e^{(0.8473[\ln H]+0.884)}$	<8.3	139.8	

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 then 25 shall be used in the calculations

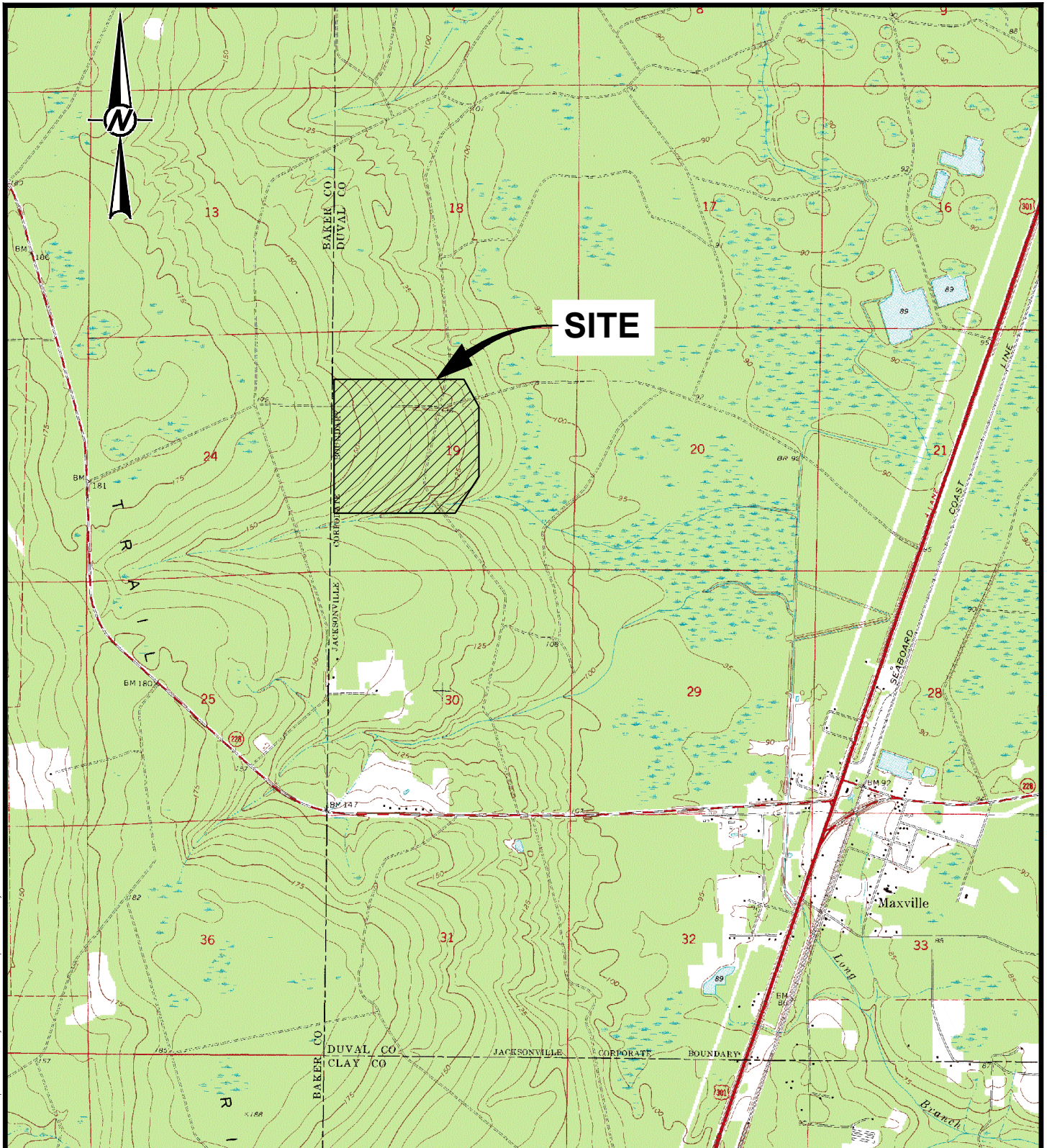
¹ - Total measured total hardness (H) is reported in milligrams/L of CaCO₃ in the Test America laboratory report

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; Underlined values indicate a WQS exceedance.

FIGURES



REFERENCES

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

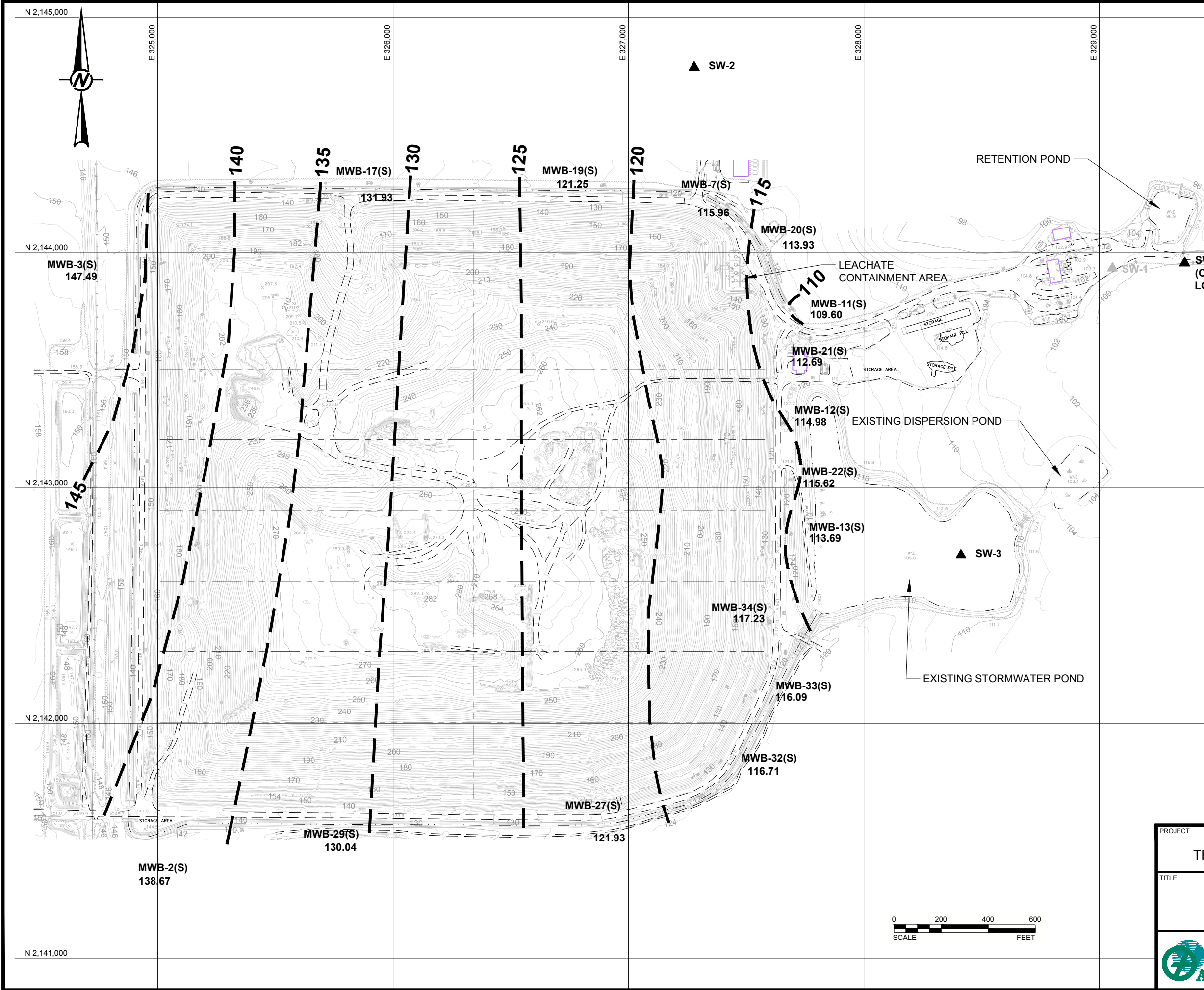
Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670



REV	DATE	REVISION DESCRIPTION	DES	CADD	CHK	RWW
PROJECT						
WASTE MANAGEMENT TRAIL RIDGE LANDFILL / JACKSONVILLE, FL						
TITLE						
SITE LOCATION						
PROJECT No.			FILE No.			
DESIGN			11390141-01 Site Loc			
CADD			SCALE AS SHOWN			
CHECK			FIGURE			
REVIEW			1			



C:\Waste Management\11390141 Trail Ridge\Annual Pot Map\2014-03\11390141-03 Shallow 2014-03.dwg Layout: 11390141-03 Shallow 2014-03 Modified: emaily 05/14/2014 3:57 PM Plotted: emaily 05/14/2014



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)
- 114.98 GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 4, 2014.

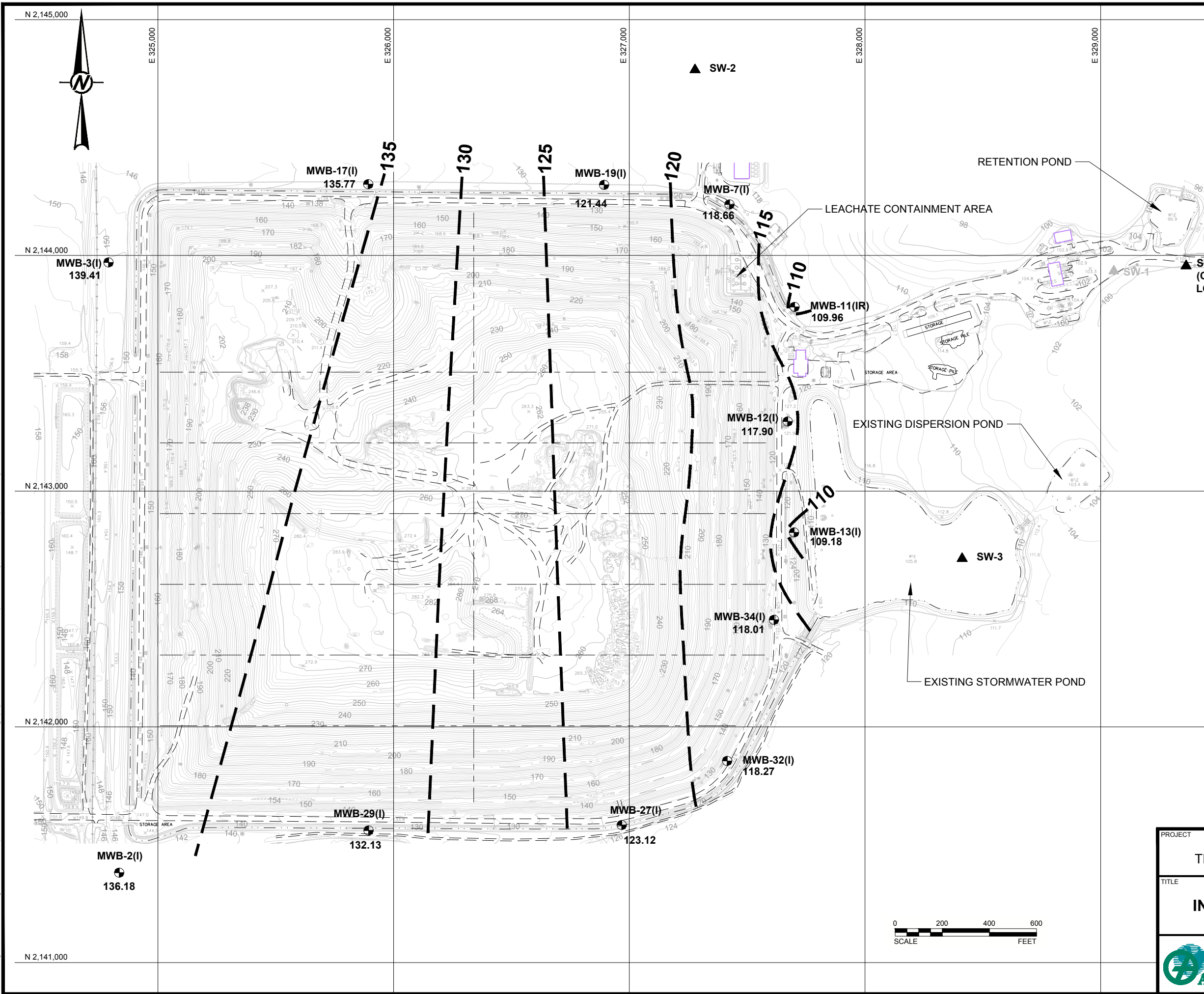
REFERENCES

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.

Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

PROJECT		WASTE MANAGEMENT TRAIL RIDGE LANDFILL / JACKSONVILLE, FL	
TITLE		MARCH 2014 SHALLOW SURFICIAL AQUIFER POTENTIOMETRIC MAP	
		PROJECT No.	11390141
		DESIGN	-
		CADD	RJC
		CHECK	KNJ
SCALE		FILE No.	11390141-03 Shallow 2014-03
		FIGURE	AS SHOWN
		3	

C:\Waste Management\11390141 - Trail Ridge\Site\Annual Pot Map\2014-03\11390141-04 Intermediate 2014-03.dwg | Layout: 11390141-04 Intermediate 2014-03 | Plotted: smalley 05/14/2014



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)
- 109.18 GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 4, 2014.

REFERENCES

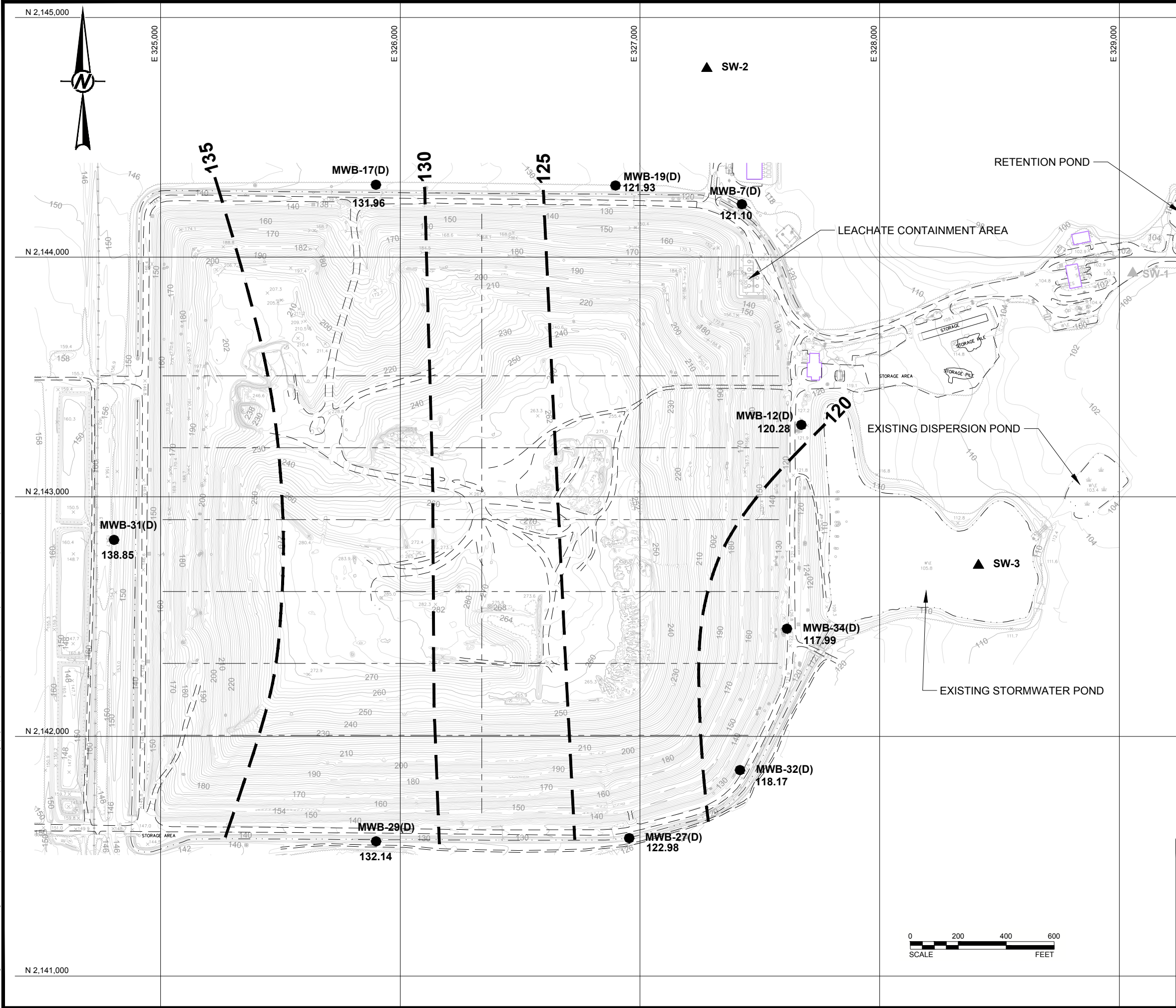
1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

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		MARCH 2014 INTERMEDIATE SURFICIAL AQUIFER POTENTIOMETRIC MAP	
		PROJECT No.	11390141
		DESIGN	-
		CADD	RJC
		CHECK	KNJ
SCALE		FIGURE	4
		REVIEW	RWP

C:\Waste Management\11390141-05 Deep 2014-03-28.dwg, Layout: 11390141-05 Deep 2014-03-28.dwg, Plotted: rmalley 05/14/2014 3:57 PM, [Plotted: rmalley 05/14/2014 3:57 PM]



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)
- 117.99 GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON MARCH 4, 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.

Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

PROJECT WASTE MANAGEMENT TRAIL RIDGE LANDFILL / JACKSONVILLE, FL			
TITLE MARCH 2014 DEEP SURFICIAL AQUIFER POTENTIOMETRIC MAP			
	PROJECT No. 11390141		FILE No. 11390141-05 Deep 2014-03
	DESIGN	-	SCALE AS SHOWN
	CADD	RJC	2014-03-28
	CHECK	KNJ	2014-03-28
REVIEW RWP			FIGURE 5

APPENDIX A
INSTRUMENT CALIBRATION FIELD RECORDS
AND WELL DEVELOPMENT FORMS

FT 1000 General Field Testing and Measurement

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^{NS}/cm PINE ENVIRONMENTAL EXP: B-2014

Standard B 1413 NS cm PINE ENVIRONMENTAL EXP: 8-2014

Standard C _____

[illegible]

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HFS Scientific Micro TPI INSTRUMENT # 108086

PARAMETER: *[check only one]*

☐ TEMPERATURE

□ CONDUCTIVITY

□ SALINITY

☐ pH

☐ ORP

☒ TURBIDITY

☐ RESIDUAL CI☐ 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

[illegible]

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9825

INSTRUMENT # 725490

PARAMETER: *[check only one]*

☐ TEMPERATURE☐ CONDUCTIVITY☐ SALINITY

☐ pH

☐ ORP☐ TURBIDITY☐ RESIDUAL CI☒ 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

[illegible]

DEP-SOP-001/01
FS 2200 Groundwater Sampling

Table FS 2200-2
Dissolved Oxygen Saturation

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

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

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) 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 7.01 (5-0) EXP: 03/2014

Standard BEST ENVIRONMENTAL 4.01 (STD) EXP: 03/2014

Standard C P, NE ENVIRONMENTAL (D.OI (STO) EXP: 03/2014

[illegible]

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

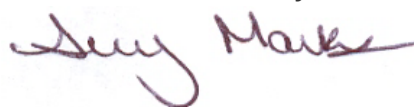
TestAmerica Job ID: 640-47048-1

Client Project/Site: Trail Ridge Landfill
Sampling Event: Semi-Annual Groundwater
Semi-Annual Surface Water

For:

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

Attn: Mr. Mike Smilley



Authorized for release by:
3/21/2014 2:26:49 PM

Amy Marks, Project Manager II
(850)878-3994
amy.marks@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 640-47048-1

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.
J	Estimated value; value may not be accurate.

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Case Narrative

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

TestAmerica Job ID: 640-47048-1

Job ID: 640-47048-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative 640-47048-1

Comments

No additional comments.

Receipt

The samples were received on 3/5/2014 at 8:15 AM, 3/6/2014 at 8:20 AM and 3/7/2014 at 8:15 AM. The samples arrived in good condition, properly preserved, and on ice. The temperatures of the 9 coolers at receipt time were 0.4° C, 0.6° C, 0.6° C, 0.6° C, 0.6° C, 0.8° C, 0.8° C, 2.2° C and 2.4° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 319036 recovered above the upper control limit for trans-1,4-Dichloro-2-butene. The samples associated with this CCV were non-detects for the affected analyte; therefore, the results have been reported.

Method 8260B: The laboratory control sample (LCS) associated with batch 319036 recovered outside control limits for Methylene chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the results have been reported and qualified.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 319036. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 8260B: The continuing calibration verification (CCV) associated with batch 319041 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the results have been reported.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 319041. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 319228. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 319225. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

GC Semi VOA

Method 8011: Surrogate recovery for the following sample was outside the upper control limit: MWB-27(I)c (640-47063-10). This sample did not contain any target analytes; therefore, re-extraction and re-analysis was not performed.

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

Metals

Method 1631E: The following samples was diluted due to the nature of the sample matrix: SW-1 (640-47084-1), SW-2 (640-47084-2), and SW-3 (640-47084-3). Elevated reporting limits (RLs) are provided.

Method 1631E: Routine preservation and digestion of samples analyzed by EPA 1631E consists of the addition of 0.2 - 0.8mL bromine monochloride (BrCl) solution. Additional BrCl was required to ensure complete sample oxidation for the following samples: SW-3 (640-47084-3). An additional method digestion blank, with like amounts of BrCl, was prepared and analyzed with the samples. The mercury concentration in this additional method blank is less than the reporting limit.

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

Field Service / Mobile Lab

Case Narrative

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

TestAmerica Job ID: 640-47048-1

Job ID: 640-47048-1 (Continued)

Laboratory: TestAmerica Tallahassee (Continued)

Field data was collected and provided by Professional Technical Services, Inc.

General Chemistry

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

Subcontract Work

Method Fecal Coliform: This method was subcontracted to Diversified Environmental Laboratories.

Method Chlorophyll a: This method was subcontracted to ENCO-Orlando.

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-47048-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.81	I	2.0	0.60	ug/L	1		8260B	Total/NA
Chloride	28		1.0	0.50	mg/L	2		300.0	Total/NA
Barium	49		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.69		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1500		100	33	ug/L	1		6020	Total Recoverable
Lead	0.86	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	22		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.3	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	140		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.95		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Lt Brown				PCU	1		Field Sampling	Total/NA
Field pH	Tint 5.08				SU	1		Field Sampling	Total/NA
Field Temperature	20.0				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	201				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.21				NTU	1		Field Sampling	Total/NA
Water Level	116.71				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-47048-2

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
Barium	47		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	3.7	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.22	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	540		100	33	ug/L	1		6020	Total Recoverable
Lead	5.7		1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.1	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	56		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.086		0.050	0.026	mg/L	1		350.1	Total/NA
Color	White Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.25				SU	1		Field Sampling	Total/NA
Field Temperature	21.7				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	16.99				NTU	1		Field Sampling	Total/NA
Water Level	118.27				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-47048-3

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
Barium	63		5.0	1.3	ug/L	1			6020	Total
										Recoverable
Iron	690		100	33	ug/L	1			6020	Total
										Recoverable
Lead	0.20	I	1.5	0.20	ug/L	1			6020	Total
										Recoverable
Sodium	5.3		0.50	0.25	mg/L	1			6020	Total
										Recoverable
Total Dissolved Solids	100		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
Color	None				PCU	1			Field Sampling	Total/NA
Field pH	6.01				SU	1			Field Sampling	Total/NA
Field Temperature	21.7				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	132				umhos/cm	1			Field Sampling	Total/NA
Turbidity	2.69				NTU	1			Field Sampling	Total/NA
Water Level	118.17				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-47048-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	13		0.50	0.25	mg/L	1			300.0	Total/NA
Barium	16		5.0	1.3	ug/L	1			6020	Total
										Recoverable
Cobalt	0.21	I	0.50	0.15	ug/L	1			6020	Total
										Recoverable
Iron	210		100	33	ug/L	1			6020	Total
										Recoverable
Sodium	12		0.50	0.25	mg/L	1			6020	Total
										Recoverable
Vanadium	6.9	I	10	3.8	ug/L	1			6020	Total
										Recoverable
Total Dissolved Solids	370		10	10	mg/L	1			2540C-2011	Total/NA
Ammonia (as N)	0.93		0.050	0.026	mg/L	1			350.1	Total/NA
Color	None				PCU	1			Field Sampling	Total/NA
Field pH	5.57				SU	1			Field Sampling	Total/NA
Field Temperature	20.2				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	294				umhos/cm	1			Field Sampling	Total/NA
Turbidity	3.46				NTU	1			Field Sampling	Total/NA
Water Level	116.09				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-47048-5

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	24		5.0	1.3	ug/L	1			6020	Total
										Recoverable
Cobalt	0.23	I	0.50	0.15	ug/L	1			6020	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(S)c (Continued)

Lab Sample ID: 640-47048-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	650		100	33	ug/L	1		6020	Total Recoverable
Sodium	8.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	62		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.28		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.33				SU	1		Field Sampling	Total/NA
Field Temperature	17.5				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	70				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.68				NTU	1		Field Sampling	Total/NA
Water Level	130.04				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-47048-6

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
Barium	52		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	490		100	33	ug/L	1		6020	Total Recoverable
Lead	0.72	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	45		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.11		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.1				SU	1		Field Sampling	Total/NA
Field Temperature	22.7				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	38				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.25				NTU	1		Field Sampling	Total/NA
Water Level	132.13				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-47048-7

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
Barium	62		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	760		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	71		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.17		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.33		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.47				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(D)c (Continued)

Lab Sample ID: 640-47048-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	22.2				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	62				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.04				NTU	1		Field Sampling	Total/NA
Water Level	132.14				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-47048-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	34		1.0	0.50	mg/L	2		300.0	Total/NA
Barium	6.1		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	3.7	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.19	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.9	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	440		100	33	ug/L	1		6020	Total Recoverable
Lead	0.46	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Selenium	4.5		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	28		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	37		10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	300		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.37		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.25		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Lt Yellow/Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.86				SU	1		Field Sampling	Total/NA
Field Temperature	20.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	409				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.73				NTU	1		Field Sampling	Total/NA
Water Level	113.7				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-47048-9

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
Barium	36		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.20	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	530		100	33	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(I)c (Continued)

Lab Sample ID: 640-47048-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.49	I	1.5	0.20	ug/L	1		6020	Total
									Recoverable
Sodium	3.8		0.50	0.25	mg/L	1		6020	Total
									Recoverable
Total Dissolved Solids	41		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.10		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.036	I	0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.16				SU	1		Field Sampling	Total/NA
Field Temperature	25.9				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	34				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.82				NTU	1		Field Sampling	Total/NA
Water Level	109.18				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-47048-10

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	4.0	I	5.0	1.3	ug/L	1		6020	Total
									Recoverable
Iron	99	I	100	33	ug/L	1		6020	Total
									Recoverable
Sodium	9.9		0.50	0.25	mg/L	1		6020	Total
									Recoverable
Total Dissolved Solids	230		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.37		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.91				SU	1		Field Sampling	Total/NA
Field Temperature	20.7				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	287				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.01				NTU	1		Field Sampling	Total/NA
Water Level	115.62				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-47048-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	26		5.0	1.3	ug/L	1		6020	Total
									Recoverable
Iron	790		100	33	ug/L	1		6020	Total
									Recoverable
Sodium	4.3		0.50	0.25	mg/L	1		6020	Total
									Recoverable
Total Dissolved Solids	69		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	1.1		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.11				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-21(S)c (Continued)

Lab Sample ID: 640-47048-11

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	81				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Water Level	112.69				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-47048-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.7		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	5.0		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	260		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	54		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Lt Brown				PCU	1		Field Sampling	Total/NA
Tint									
Field pH	5.38				SU	1		Field Sampling	Total/NA
Field Temperature	21.7				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	46				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.31				NTU	1		Field Sampling	Total/NA
Water Level	131.93				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.0		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	41		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	360		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	64		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.045	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	22.4				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	30				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.85				NTU	1		Field Sampling	Total/NA
Water Level	135.77				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-47048-14

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(D)c (Continued)

Lab Sample ID: 640-47048-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.3		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	33		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.28	I	0.50	0.25	ug/L	1		6020	Total Recoverable
Iron	350		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	68		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.087		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	22.5				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	49				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.83				NTU	1		Field Sampling	Total/NA
Water Level	131.96				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-47048-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	78		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.30	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1300		100	33	ug/L	1		6020	Total Recoverable
Sodium	11		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	93		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.50		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.66				SU	1		Field Sampling	Total/NA
Field Temperature	21.8				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	108				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.47				NTU	1		Field Sampling	Total/NA
Water Level	121.25				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-47048-16

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
Barium	71		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.60		0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	3.3	I	5.0	2.5	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(I)c (Continued)

Lab Sample ID: 640-47048-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	2.5		0.50	0.15	ug/L	1			6020	Total
Iron	960		100	33	ug/L	1			6020	Total Recoverable
Lead	0.85	I	1.5	0.20	ug/L	1			6020	Total Recoverable
Nickel	4.7	I	5.0	2.0	ug/L	1			6020	Total Recoverable
Sodium	4.1		0.50	0.25	mg/L	1			6020	Total Recoverable
Vanadium	5.0	I	10	3.8	ug/L	1			6020	Total Recoverable
Zinc	15	I	20	8.3	ug/L	1			6020	Total Recoverable
Total Dissolved Solids	51		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	4.94				SU	1			Field Sampling	Total/NA
Field Temperature	22.9				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	34				umhos/cm	1			Field Sampling	Total/NA
Turbidity	7.4				NTU	1			Field Sampling	Total/NA
Water Level	121.44				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-47048-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.5		0.50	0.25	mg/L	1			300.0	Total/NA
Arsenic	1.7	I	2.5	1.3	ug/L	1			6020	Total Recoverable
Barium	110		5.0	1.3	ug/L	1			6020	Total Recoverable
Beryllium	0.31	I	0.50	0.25	ug/L	1			6020	Total Recoverable
Cadmium	0.18	I	0.50	0.095	ug/L	1			6020	Total Recoverable
Chromium	3.1	I	5.0	2.5	ug/L	1			6020	Total Recoverable
Cobalt	0.38	I	0.50	0.15	ug/L	1			6020	Total Recoverable
Iron	2200		100	33	ug/L	1			6020	Total Recoverable
Lead	0.57	I	1.5	0.20	ug/L	1			6020	Total Recoverable
Sodium	5.0		0.50	0.25	mg/L	1			6020	Total Recoverable
Vanadium	5.9	I	10	3.8	ug/L	1			6020	Total Recoverable
Total Dissolved Solids	220		10	10	mg/L	1			2540C-2011	Total/NA
Ammonia (as N)	0.11		0.050	0.026	mg/L	1			350.1	Total/NA
Color	None				PCU	1			Field Sampling	Total/NA
Field pH	6.95				SU	1			Field Sampling	Total/NA
Field Temperature	22.3				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1			Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(D)c (Continued)

Lab Sample ID: 640-47048-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	346				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.89				NTU	1		Field Sampling	Total/NA
Water Level	121.93				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.2		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	12		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.20	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	250		100	33	ug/L	1		6020	Total Recoverable
Lead	0.65	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	7.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.6	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	73		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.32		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.37		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.25				SU	1		Field Sampling	Total/NA
Field Temperature	19.7				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	81				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.14				NTU	1		Field Sampling	Total/NA
Water Level	113.93				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 01 47048

Lab Sample ID: 640-47048-19

No Detections.

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-47063-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.3		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	27		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	820		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	24		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	4.81				SU	1		Field Sampling	Total/NA
Field Temperature	21.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(I)b (Continued)

Lab Sample ID: 640-47063-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	37				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.04				NTU	1		Field Sampling	Total/NA
Water Level	139.43				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

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	13		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	430		100	33	ug/L	1		6020	Total Recoverable
Sodium	5.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	18		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.054		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.51				SU	1		Field Sampling	Total/NA
Field Temperature	18.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.8				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	56				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.16				NTU	1		Field Sampling	Total/NA
Water Level	147.52				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-47063-3

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
Barium	98		5.0	1.3	ug/L	1		6020	Total Recoverable
Copper	1.6	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	940		100	33	ug/L	1		6020	Total Recoverable
Lead	0.57	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	7.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	180		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.36		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	6.9				SU	1		Field Sampling	Total/NA
Field Temperature	22.1				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	344				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.82				NTU	1		Field Sampling	Total/NA
Water Level	138.86				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(S)b (Continued)

Lab Sample ID: 640-47063-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	9.8		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	160		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	37		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.072		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.25		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.45				SU	1		Field Sampling	Total/NA
Field Temperature	17.0				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	62				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.93				NTU	1		Field Sampling	Total/NA
Water Level	138.69				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-47063-5

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	22		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.19	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	440		100	33	ug/L	1		6020	Total Recoverable
Sodium	5.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	20		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.082		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA
Field Temperature	20.6				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	38				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.21				NTU	1		Field Sampling	Total/NA
Water Level	136.18				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-47063-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	59		2.0	1.0	mg/L	4		300.0	Total/NA
Barium	5.2		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	3.3	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.79		0.50	0.15	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(S)d (Continued)

Lab Sample ID: 640-47063-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	370		100	33	ug/L	1			6020	Total
Nickel	8.5		5.0	2.0	ug/L	1			6020	Recoverable
Selenium	1.1	I	2.5	1.0	ug/L	1			6020	Total
Sodium	96		0.50	0.25	mg/L	1			6020	Recoverable
Vanadium	14		10	3.8	ug/L	1			6020	Total
Zinc	33		20	8.3	ug/L	1			6020	Recoverable
Total Dissolved Solids	530		10	10	mg/L	1			2540C-2011	Total/NA
Ammonia (as N)	2.0		0.10	0.052	mg/L	2			350.1	Total/NA
Color	Yellow Tint				PCU	1			Field Sampling	Total/NA
Field pH	6.04				SU	1			Field Sampling	Total/NA
Field Temperature	21.3				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	828				umhos/cm	1			Field Sampling	Total/NA
Turbidity	2.3				NTU	1			Field Sampling	Total/NA
Water Level	117.24				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-47063-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.5		0.50	0.25	mg/L	1			300.0	Total/NA
Barium	49		5.0	1.3	ug/L	1			6020	Total
Cobalt	0.19	I	0.50	0.15	ug/L	1			6020	Recoverable
Iron	500		100	33	ug/L	1			6020	Total
Lead	0.62	I	1.5	0.20	ug/L	1			6020	Recoverable
Sodium	3.4		0.50	0.25	mg/L	1			6020	Total
Total Dissolved Solids	37		5.0	5.0	mg/L	1			2540C-2011	Recoverable
Ammonia (as N)	0.078		0.050	0.026	mg/L	1			350.1	Total/NA
Color	None				PCU	1			Field Sampling	Total/NA
Field pH	5.31				SU	1			Field Sampling	Total/NA
Field Temperature	25.4				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	42				umhos/cm	1			Field Sampling	Total/NA
Turbidity	5.0				NTU	1			Field Sampling	Total/NA
Water Level	118.04				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-47063-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.0		0.50	0.25	mg/L	1			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(D)d (Continued)

Lab Sample ID: 640-47063-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	100		5.0	1.3	ug/L		1		6020	Total
										Recoverable
Iron	520		100	33	ug/L		1		6020	Total
										Recoverable
Sodium	6.5		0.50	0.25	mg/L		1		6020	Total
										Recoverable
Total Dissolved Solids	210		10	10	mg/L		1		2540C-2011	Total/NA
Ammonia (as N)	0.25		0.050	0.026	mg/L		1		350.1	Total/NA
Color	None				PCU		1		Field Sampling	Total/NA
Field pH	7.29				SU		1		Field Sampling	Total/NA
Field Temperature	24.2				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	408				umhos/cm		1		Field Sampling	Total/NA
Turbidity	1.36				NTU		1		Field Sampling	Total/NA
Water Level	118.0				ft		1		Field Sampling	Total/NA

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	13		0.50	0.25	mg/L		1		300.0	Total/NA
Barium	32		5.0	1.3	ug/L		1		6020	Total
										Recoverable
Cobalt	0.16	I	0.50	0.15	ug/L		1		6020	Total
										Recoverable
Iron	100		100	33	ug/L		1		6020	Total
										Recoverable
Lead	0.34	I	1.5	0.20	ug/L		1		6020	Total
										Recoverable
Sodium	12		0.50	0.25	mg/L		1		6020	Total
										Recoverable
Vanadium	5.1	I	10	3.8	ug/L		1		6020	Total
										Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L		1		2540C-2011	Total/NA
Ammonia (as N)	0.42		0.050	0.026	mg/L		1		350.1	Total/NA
Nitrate as N	1.8		0.10	0.020	mg/L		2		353.2	Total/NA
Color	Lt Brown				PCU		1		Field Sampling	Total/NA
	Tint									
Field pH	5.11				SU		1		Field Sampling	Total/NA
Field Temperature	17.8				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	167				umhos/cm		1		Field Sampling	Total/NA
Turbidity	7.32				NTU		1		Field Sampling	Total/NA
Water Level	121.96				ft		1		Field Sampling	Total/NA

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-47063-10

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
Barium	51		5.0	1.3	ug/L		1		6020	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(I)c (Continued)

Lab Sample ID: 640-47063-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	530		100	33	ug/L			1	6020	Total Recoverable
Lead	0.43	I	1.5	0.20	ug/L			1	6020	Total Recoverable
Sodium	3.7		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)	0.077		0.050	0.026	mg/L			1	350.1	Total/NA
Color	None				PCU			1	Field Sampling	Total/NA
Field pH	5.47				SU			1	Field Sampling	Total/NA
Field Temperature	20.7				Degrees C			1	Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L			1	Field Sampling	Total/NA
Sheen	None				NONE			1	Field Sampling	Total/NA
Specific Conductance	49				umhos/cm			1	Field Sampling	Total/NA
Turbidity	4.54				NTU			1	Field Sampling	Total/NA
Water Level	123.13				ft			1	Field Sampling	Total/NA

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-47063-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.8		0.50	0.25	mg/L			1	300.0	Total/NA
Barium	52		5.0	1.3	ug/L			1	6020	Total Recoverable
Iron	730		100	33	ug/L			1	6020	Total Recoverable
Sodium	3.7		0.50	0.25	mg/L			1	6020	Total Recoverable
Total Dissolved Solids	55		5.0	5.0	mg/L			1	2540C-2011	Total/NA
Ammonia (as N)	0.096		0.050	0.026	mg/L			1	350.1	Total/NA
Nitrate as N	0.023	I	0.050	0.010	mg/L			1	353.2	Total/NA
Color	None				PCU			1	Field Sampling	Total/NA
Field pH	5.94				SU			1	Field Sampling	Total/NA
Field Temperature	20.3				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	83				umhos/cm			1	Field Sampling	Total/NA
Turbidity	1.81				NTU			1	Field Sampling	Total/NA
Water Level	123.0				ft			1	Field Sampling	Total/NA

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-47063-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.4		0.50	0.25	mg/L			1	300.0	Total/NA
Barium	82		5.0	1.3	ug/L			1	6020	Total Recoverable
Iron	340		100	33	ug/L			1	6020	Total Recoverable
Sodium	5.2		0.50	0.25	mg/L			1	6020	Total Recoverable
Total Dissolved Solids	160		10	10	mg/L			1	2540C-2011	Total/NA
Ammonia (as N)	0.40		0.050	0.026	mg/L			1	350.1	Total/NA
Color	None				PCU			1	Field Sampling	Total/NA
Field pH	7.37				SU			1	Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(D)c (Continued)

Lab Sample ID: 640-47063-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	22.5				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	326				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.92				NTU	1		Field Sampling	Total/NA
Water Level	121.11				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-47063-13

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
Barium	48		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	410		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Total Dissolved Solids	28		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.073		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	1.1		0.050	0.010	mg/L	1		353.2	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.17				SU	1		Field Sampling	Total/NA
Field Temperature	23.1				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	38				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.68				NTU	1		Field Sampling	Total/NA
Water Level	118.67				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-47063-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	4.3	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	87	I	100	33	ug/L	1		6020	Total Recoverable
Lead	0.27	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	12		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.25		0.050	0.026	mg/L	1		350.1	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.3				SU	1		Field Sampling	Total/NA
Field Temperature	21.0				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	160				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.4				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(S)c (Continued)

Lab Sample ID: 640-47063-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Water Level	115.98				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 02 47063

Lab Sample ID: 640-47063-15

No Detections.

Client Sample ID: SW-1

Lab Sample ID: 640-47084-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	I	25	5.0	ug/L	1		8260B	Total/NA
Mercury	0.0014	I	0.0025	0.0010	ug/L	1		1631E	Total/NA
Barium	47		5.0	1.3	ug/L	1		6020	Total
Chromium	3.1	I	5.0	2.5	ug/L	1		6020	Recoverable Total
Cobalt	0.49	I	0.50	0.15	ug/L	1		6020	Recoverable Total
Copper	1.8	I	5.0	1.1	ug/L	1		6020	Recoverable Total
Iron	1600		100	33	ug/L	1		6020	Recoverable Total
Lead	2.6		1.5	0.20	ug/L	1		6020	Recoverable Total
Vanadium	4.9	I	10	3.8	ug/L	1		6020	Recoverable Total
Zinc	18	I	20	8.3	ug/L	1		6020	Recoverable Total
Dissolved Barium	43		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Cobalt	0.83		0.50	0.15	ug/L	1		6020	Dissolved
Dissolved Copper	3.4	I	5.0	1.1	ug/L	1		6020	Dissolved
Dissolved Iron	1400		100	33	ug/L	1		6020	Dissolved
Dissolved Lead	2.0		1.5	0.20	ug/L	1		6020	Dissolved
Dissolved Vanadium	4.2	I	10	3.8	ug/L	1		6020	Dissolved
Dissolved Zinc	27		20	8.3	ug/L	1		6020	Dissolved
Hardness as calcium carbonate	22		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	5.5		5.0	5.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1		2540C-2011	Total/NA
Total Organic Carbon	46		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	87		20	10	mg/L	2		SM 5220D	Total/NA
Nitrogen, Total	1.3		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.48				SU	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	101				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.31				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-2

Lab Sample ID: 640-47084-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.0	I	25	5.0	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-2 (Continued)

Lab Sample ID: 640-47084-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	110		5.0	1.3	ug/L	1			6020	Total
Beryllium	0.54		0.50	0.25	ug/L	1			6020	Recoverable
Cobalt	0.19	I	0.50	0.15	ug/L	1			6020	Total
Iron	650		100	33	ug/L	1			6020	Recoverable
Vanadium	5.1	I	10	3.8	ug/L	1			6020	Total
Dissolved Barium	97		5.0	1.3	ug/L	1			6020	Recoverable
Dissolved Beryllium	0.48	I	0.50	0.25	ug/L	1			6020	Dissolved
Dissolved Cobalt	0.29	I	0.50	0.15	ug/L	1			6020	Dissolved
Dissolved Iron	540		100	33	ug/L	1			6020	Dissolved
Dissolved Vanadium	4.4	I	10	3.8	ug/L	1			6020	Dissolved
Hardness as calcium carbonate	13		3.3	3.3	mg/L	1			SM 2340B	Total/NA
Total Suspended Solids	5.0		5.0	5.0	mg/L	1			2540 D-2011	Total/NA
Total Dissolved Solids	22		5.0	5.0	mg/L	1			2540C-2011	Total/NA
Nitrate as N	0.094		0.050	0.010	mg/L	1			353.2	Total/NA
Total Organic Carbon	15		1.0	0.50	mg/L	1			5310 B-2011	Total/NA
Chemical Oxygen Demand	27		10	5.0	mg/L	1			SM 5220D	Total/NA
Nitrogen, Total	0.60		0.25	0.25	mg/L	1			Total Nitrogen	Total/NA
Color	Yellow Tint				PCU	1			Field Sampling	Total/NA
Field pH	4.26				SU	1			Field Sampling	Total/NA
Field Temperature	15.6				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	6.1				mg/L	1			Field Sampling	Total/NA
Sheen	None				NONE	1			Field Sampling	Total/NA
Specific Conductance	67				umhos/cm	1			Field Sampling	Total/NA
Turbidity	3.19				NTU	1			Field Sampling	Total/NA

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	5.3	I	25	5.0	ug/L	1			8260B	Total/NA
Mercury	0.0087		0.0025	0.0010	ug/L	1			1631E	Total/NA
Arsenic	1.7	I	2.5	1.3	ug/L	1			6020	Total
Barium	50		5.0	1.3	ug/L	1			6020	Recoverable
Chromium	5.9		5.0	2.5	ug/L	1			6020	Total
Cobalt	0.48	I	0.50	0.15	ug/L	1			6020	Recoverable
Copper	4.9	I	5.0	1.1	ug/L	1			6020	Total
Iron	1100		100	33	ug/L	1			6020	Recoverable
Lead	10		1.5	0.20	ug/L	1			6020	Total
Nickel	3.4	I	5.0	2.0	ug/L	1			6020	Recoverable
Selenium	1.4	I	2.5	1.0	ug/L	1			6020	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-3 (Continued)

Lab Sample ID: 640-47084-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	11		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	17	I	20	8.3	ug/L	1		6020	Total Recoverable
Dissolved Arsenic	1.4	I	2.5	1.3	ug/L	1		6020	Dissolved
Dissolved Barium	40		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Cobalt	0.25	I	0.50	0.15	ug/L	1		6020	Dissolved
Dissolved Copper	4.3	I	5.0	1.1	ug/L	1		6020	Dissolved
Dissolved Iron	61	I	100	33	ug/L	1		6020	Dissolved
Dissolved Lead	0.49	I	1.5	0.20	ug/L	1		6020	Dissolved
Dissolved Nickel	4.1	I	5.0	2.0	ug/L	1		6020	Dissolved
Dissolved Selenium	1.0	I	2.5	1.0	ug/L	1		6020	Dissolved
Dissolved Vanadium	4.6	I	10	3.8	ug/L	1		6020	Dissolved
Dissolved Zinc	13	I	20	8.3	ug/L	1		6020	Dissolved
Hardness as calcium carbonate	160		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	24		5.0	5.0	mg/L	1		2540 D-2011	Total/NA
Total Dissolved Solids	260		10	10	mg/L	1		2540C-2011	Total/NA
Nitrate as N	0.33		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.070	I	0.10	0.041	mg/L	1		365.4	Total/NA
Biochemical Oxygen Demand	2.8		2.0	2.0	mg/L	1		5210B-2011	Total/NA
Total Organic Carbon	16		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	30		10	5.0	mg/L	1		SM 5220D	Total/NA
Nitrogen, Total	2.6		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.0037		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	7.2				SU	1		Field Sampling	Total/NA
Field Temperature	15.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	362				umhos/cm	1		Field Sampling	Total/NA
Turbidity	23.94				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 03 47084

Lab Sample ID: 640-47084-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.1	I	25	5.0	ug/L	1		8260B	Total/NA

Client Sample ID: Field Blank 01 47090

Lab Sample ID: 640-47090-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.077		0.050	0.026	mg/L	1		350.1	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	6.88				SU	1		Field Sampling	Total/NA
Field Temperature	20.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.8				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	2.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank 02 47090

Lab Sample ID: 640-47090-5

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Field Blank 02 47090 (Continued)

Lab Sample ID: 640-47090-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
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	6.82				SU	1		Field Sampling	Total/NA
Field Temperature	20.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	2.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-47090-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.7		1.0	0.50	mg/L	2		300.0	Total/NA
Barium	5.2		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	4.4	I	5.0	2.5	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
Lead	0.57	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.1	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	9.3		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	5.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	41		10	3.8	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	210		10	10	mg/L	1		2540C-2011	Total/NA
Ammonia (as N)	0.38		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.29		0.050	0.010	mg/L	1		353.2	Total/NA
Color	Lt Brown				PCU	1		Field Sampling	Total/NA
Field pH	5.74				SU	1		Field Sampling	Total/NA
Field Temperature	20.8				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	242				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.68				NTU	1		Field Sampling	Total/NA
Water Level	115.01				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-47090-7

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
Barium	57		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	330		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.8		0.50	0.25	mg/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(1)c (Continued)

Lab Sample ID: 640-47090-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Total Dissolved Solids	35		5.0	5.0	mg/L		1		2540C-2011	Total/NA
Ammonia (as N)	0.075		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	5.26				SU		1		Field Sampling	Total/NA
Field Temperature	25.2				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	37				umhos/cm		1		Field Sampling	Total/NA
Turbidity	2.11				NTU		1		Field Sampling	Total/NA
Water Level	117.92				ft		1		Field Sampling	Total/NA

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-47090-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.2		0.50	0.25	mg/L		1		300.0	Total/NA
Barium	130		5.0	1.3	ug/L		1		6020	Total Recoverable
Iron	820		100	33	ug/L		1		6020	Total Recoverable
Sodium	5.8		0.50	0.25	mg/L		1		6020	Total Recoverable
Total Dissolved Solids	240		10	10	mg/L		1		2540C-2011	Total/NA
Ammonia (as N)	0.28		0.050	0.026	mg/L		1		350.1	Total/NA
Color	None				PCU		1		Field Sampling	Total/NA
Field pH	7.14				SU		1		Field Sampling	Total/NA
Field Temperature	23.7				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	364				umhos/cm		1		Field Sampling	Total/NA
Turbidity	3.97				NTU		1		Field Sampling	Total/NA
Water Level	120.28				ft		1		Field Sampling	Total/NA

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-47090-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	6.5	I	25	5.0	ug/L		1		8260B	Total/NA
Chloride	24		0.50	0.25	mg/L		1		300.0	Total/NA
Barium	92		5.0	1.3	ug/L		1		6020	Total Recoverable
Beryllium	0.26	I	0.50	0.25	ug/L		1		6020	Total Recoverable
Cobalt	0.61		0.50	0.15	ug/L		1		6020	Total Recoverable
Iron	630		100	33	ug/L		1		6020	Total Recoverable
Sodium	15		0.50	0.25	mg/L		1		6020	Total Recoverable
Vanadium	3.8	I	10	3.8	ug/L		1		6020	Total Recoverable
Total Dissolved Solids	42		10	10	mg/L		1		2540C-2011	Total/NA
Ammonia (as N)	0.15		0.050	0.026	mg/L		1		350.1	Total/NA
Nitrate as N	0.077		0.050	0.010	mg/L		1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(S)c (Continued)

Lab Sample ID: 640-47090-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Color	None				PCU	1			Field Sampling	Total/NA
Field pH	3.98				SU	1			Field Sampling	Total/NA
Field Temperature	20.8				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	191				umhos/cm	1			Field Sampling	Total/NA
Turbidity	2.96				NTU	1			Field Sampling	Total/NA
Water Level	109.63				ft	1			Field Sampling	Total/NA

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.6		0.50	0.25	mg/L	1			300.0	Total/NA
Barium	53		5.0	1.3	ug/L	1			6020	Total Recoverable
Chromium	6.9		5.0	2.5	ug/L	1			6020	Total Recoverable
Cobalt	0.16	I	0.50	0.15	ug/L	1			6020	Total Recoverable
Iron	600		100	33	ug/L	1			6020	Total Recoverable
Lead	1.6		1.5	0.20	ug/L	1			6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1			6020	Total Recoverable
Vanadium	11		10	3.8	ug/L	1			6020	Total Recoverable
Total Dissolved Solids	31		5.0	5.0	mg/L	1			2540C-2011	Total/NA
Ammonia (as N)	0.13		0.050	0.026	mg/L	1			350.1	Total/NA
Color	Brown Tint				PCU	1			Field Sampling	Total/NA
Field pH	4.76				SU	1			Field Sampling	Total/NA
Field Temperature	24.6				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	9.95				NTU	1			Field Sampling	Total/NA
Water Level	109.99				ft	1			Field Sampling	Total/NA

Client Sample ID: Trip Blank 04 47090

Lab Sample ID: 640-47090-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	6.8	I	25	5.0	ug/L	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-47048-1

Date Collected: 03/04/14 16:26

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 02:22	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 02:22	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 02:22	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:22	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 02:22	1
Carbon disulfide	0.81	I	2.0	0.60	ug/L			03/10/14 02:22	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 02:22	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 02:22	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:22	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:22	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 02:22	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:22	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:22	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 02:22	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 02:22	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 02:22	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 02:22	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 02:22	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:22	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 02:22	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 02:22	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 02:22	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 02:22	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 02:22	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 02:22	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 02:22	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 02:22	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:22	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 02:22	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:22	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 02:22	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 02:22	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 02:22	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 02:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 02:22	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 02:22	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 02:22	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:22	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 02:22	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 02:22	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 02:22	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 02:22	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-47048-1

Date Collected: 03/04/14 16:26

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/10/14 02:22	1
Dibromofluoromethane	109		70 - 130		03/10/14 02:22	1
Toluene-d8 (Surr)	95		70 - 130		03/10/14 02:22	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		03/10/14 15:30	03/10/14 19:54	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/10/14 15:30	03/10/14 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	125		60 - 144	03/10/14 15:30	03/10/14 19:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		1.0	0.50	mg/L			03/12/14 14:35	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		03/05/14 13:48	03/06/14 19:27	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 19:27	1
Barium	49		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 19:27	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 19:27	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 19:27	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 19:27	1
Cobalt	0.69		0.50	0.15	ug/L		03/05/14 13:48	03/06/14 19:27	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 19:27	1
Iron	1500		100	33	ug/L		03/05/14 13:48	03/06/14 19:27	1
Lead	0.86	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 19:27	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 19:27	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 19:27	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 19:27	1
Sodium	22		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 19:27	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 19:27	1
Vanadium	4.3	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 19:27	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 19:27	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		03/05/14 14:51	03/06/14 14:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.95		0.050	0.026	mg/L			03/18/14 18:07	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Brown				PCU			03/04/14 16:25	1
Field pH	5.08				SU			03/04/14 16:25	1
Field Temperature	20.0				Degrees C			03/04/14 16:25	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-47048-1

Date Collected: 03/04/14 16:26

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.4				mg/L			03/04/14 16:25	1
Sheen	None				NONE			03/04/14 16:25	1
Specific Conductance	201				umhos/cm			03/04/14 16:25	1
Turbidity	9.21				NTU			03/04/14 16:25	1
Water Level	116.71				ft			03/04/14 16:25	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-47048-2

Date Collected: 03/04/14 15:55

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 02:43	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 02:43	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 02:43	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:43	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 02:43	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 02:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 02:43	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 02:43	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:43	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:43	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 02:43	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:43	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:43	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 02:43	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 02:43	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 02:43	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 02:43	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 02:43	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:43	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 02:43	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 02:43	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 02:43	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 02:43	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 02:43	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 02:43	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 02:43	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 02:43	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:43	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 02:43	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:43	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 02:43	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 02:43	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 02:43	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 02:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 02:43	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 02:43	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 02:43	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:43	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 02:43	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 02:43	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 02:43	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 02:43	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-47048-2

Date Collected: 03/04/14 15:55

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130		03/10/14 02:43	1
Dibromofluoromethane	108		70 - 130		03/10/14 02:43	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 02:43	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.021	0.0054	ug/L		03/10/14 15:30	03/10/14 20:03	1
EDB	0.0024	U	0.021	0.0024	ug/L		03/10/14 15:30	03/10/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	124		60 - 144	03/10/14 15:30	03/10/14 20:03	1

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			03/12/14 14:50	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		03/05/14 13:48	03/06/14 19:33	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 19:33	1
Barium	47		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 19:33	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 19:33	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 19:33	1
Chromium	3.7	I	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 19:33	1
Cobalt	0.22	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 19:33	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 19:33	1
Iron	540		100	33	ug/L		03/05/14 13:48	03/06/14 19:33	1
Lead	5.7		1.5	0.20	ug/L		03/05/14 13:48	03/06/14 19:33	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 19:33	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 19:33	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 19:33	1
Sodium	3.7		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 19:33	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 19:33	1
Vanadium	5.1	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 19:33	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 19:33	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		03/05/14 14:51	03/06/14 14:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.086		0.050	0.026	mg/L			03/18/14 18:07	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	White Tint				PCU			03/04/14 15:54	1
Field pH	5.25				SU			03/04/14 15:54	1
Field Temperature	21.7				Degrees C			03/04/14 15:54	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 15:54	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-47048-2

Date Collected: 03/04/14 15:55

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 15:54	1
Specific Conductance	40				umhos/cm			03/04/14 15:54	1
Turbidity	16.99				NTU			03/04/14 15:54	1
Water Level	118.27				ft			03/04/14 15:54	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-47048-3

Date Collected: 03/04/14 15:25

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 03:05	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 03:05	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 03:05	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:05	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 03:05	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 03:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 03:05	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 03:05	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:05	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:05	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 03:05	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:05	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:05	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 03:05	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 03:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 03:05	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 03:05	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 03:05	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:05	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 03:05	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 03:05	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 03:05	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 03:05	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 03:05	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 03:05	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 03:05	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 03:05	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:05	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 03:05	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:05	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 03:05	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 03:05	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 03:05	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 03:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 03:05	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 03:05	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 03:05	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:05	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 03:05	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 03:05	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 03:05	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 03:05	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(D)

Lab Sample ID: 640-47048-3

Date Collected: 03/04/14 15:25

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/10/14 03:05	1
Dibromofluoromethane	108		70 - 130		03/10/14 03:05	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 03:05	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.022	0.0054	ug/L		03/10/14 15:30	03/10/14 20:11	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/10/14 15:30	03/10/14 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	123		60 - 144	03/10/14 15:30	03/10/14 20:11	1

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			03/12/14 15:06	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		03/05/14 13:48	03/06/14 19:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 19:40	1
Barium	63		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 19:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 19:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 19:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 19:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 19:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 19:40	1
Iron	690		100	33	ug/L		03/05/14 13:48	03/06/14 19:40	1
Lead	0.20	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 19:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 19:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 19:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 19:40	1
Sodium	5.3		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 19:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 19:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 19:40	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 19:40	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		03/05/14 14:51	03/06/14 14:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.18		0.050	0.026	mg/L			03/18/14 18:07	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 15:24	1
Field pH	6.01				SU			03/04/14 15:24	1
Field Temperature	21.7				Degrees C			03/04/14 15:24	1
Oxygen, Dissolved	0.2				mg/L			03/04/14 15:24	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-47048-3

Date Collected: 03/04/14 15:25

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 15:24	1
Specific Conductance	132				umhos/cm			03/04/14 15:24	1
Turbidity	2.69				NTU			03/04/14 15:24	1
Water Level	118.17				ft			03/04/14 15:24	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-47048-4

Date Collected: 03/04/14 14:45

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 03:26	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 03:26	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 03:26	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:26	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 03:26	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 03:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 03:26	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 03:26	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:26	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:26	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 03:26	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:26	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:26	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 03:26	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 03:26	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 03:26	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 03:26	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 03:26	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:26	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 03:26	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 03:26	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 03:26	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 03:26	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 03:26	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 03:26	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 03:26	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 03:26	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:26	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 03:26	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:26	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 03:26	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 03:26	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 03:26	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 03:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 03:26	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 03:26	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 03:26	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:26	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 03:26	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 03:26	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 03:26	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 03:26	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-47048-4

Date Collected: 03/04/14 14:45

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/10/14 03:26	1
Dibromofluoromethane	108		70 - 130		03/10/14 03:26	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 03:26	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		03/10/14 15:30	03/10/14 20:20	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	127		60 - 144	03/10/14 15:30	03/10/14 20:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50	0.25	mg/L			03/12/14 15:21	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		03/05/14 13:48	03/06/14 20:01	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:01	1
Barium	16		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:01	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:01	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:01	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:01	1
Cobalt	0.21	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:01	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:01	1
Iron	210		100	33	ug/L		03/05/14 13:48	03/06/14 20:01	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:01	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:01	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:01	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:01	1
Sodium	12		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:01	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:01	1
Vanadium	6.9	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:01	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:01	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		03/05/14 14:51	03/06/14 14:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		10	10	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.93		0.050	0.026	mg/L			03/18/14 18:07	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 14:44	1
Field pH	5.57				SU			03/04/14 14:44	1
Field Temperature	20.2				Degrees C			03/04/14 14:44	1
Oxygen, Dissolved	0.2				mg/L			03/04/14 14:44	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-47048-4

Date Collected: 03/04/14 14:45

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 14:44	1
Specific Conductance	294				umhos/cm			03/04/14 14:44	1
Turbidity	3.46				NTU			03/04/14 14:44	1
Water Level	116.09				ft			03/04/14 14:44	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-47048-5

Date Collected: 03/04/14 14:12

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 03:48	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 03:48	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 03:48	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:48	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 03:48	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 03:48	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 03:48	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 03:48	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:48	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 03:48	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 03:48	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:48	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:48	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 03:48	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 03:48	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 03:48	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 03:48	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 03:48	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 03:48	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 03:48	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 03:48	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 03:48	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 03:48	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 03:48	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 03:48	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 03:48	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 03:48	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 03:48	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 03:48	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 03:48	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 03:48	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 03:48	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 03:48	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 03:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 03:48	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 03:48	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 03:48	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 03:48	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 03:48	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 03:48	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 03:48	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 03:48	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-47048-5

Date Collected: 03/04/14 14:12

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/10/14 03:48	1
Dibromofluoromethane	107		70 - 130		03/10/14 03:48	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 03:48	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		03/10/14 15:30	03/10/14 20:28	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	143		60 - 144	03/10/14 15:30	03/10/14 20:28	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			03/12/14 15:36	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		03/05/14 13:48	03/06/14 18:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 18:54	1
Barium	24		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 18:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 18:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 18:54	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 18:54	1
Cobalt	0.23	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 18:54	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 18:54	1
Iron	650		100	33	ug/L		03/05/14 13:48	03/06/14 18:54	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 18:54	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 18:54	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 18:54	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 18:54	1
Sodium	8.7		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 18:54	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 18:54	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 18:54	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 18:54	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		03/05/14 14:51	03/06/14 14:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	62		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.28		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 14:11	1
Field pH	4.33				SU			03/04/14 14:11	1
Field Temperature	17.5				Degrees C			03/04/14 14:11	1
Oxygen, Dissolved	0.3				mg/L			03/04/14 14:11	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-47048-5

Date Collected: 03/04/14 14:12

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 14:11	1
Specific Conductance	70				umhos/cm			03/04/14 14:11	1
Turbidity	1.68				NTU			03/04/14 14:11	1
Water Level	130.04				ft			03/04/14 14:11	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-47048-6

Date Collected: 03/04/14 13:41

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 04:09	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 04:09	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 04:09	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:09	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 04:09	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 04:09	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 04:09	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 04:09	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:09	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:09	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 04:09	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:09	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:09	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 04:09	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 04:09	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 04:09	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 04:09	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 04:09	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:09	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 04:09	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 04:09	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 04:09	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 04:09	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 04:09	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 04:09	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 04:09	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 04:09	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:09	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 04:09	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:09	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 04:09	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 04:09	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 04:09	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 04:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 04:09	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 04:09	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 04:09	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:09	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 04:09	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 04:09	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 04:09	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 04:09	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-47048-6

Date Collected: 03/04/14 13:41

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 04:09	1
Dibromofluoromethane	107		70 - 130		03/10/14 04:09	1
Toluene-d8 (Surr)	95		70 - 130		03/10/14 04:09	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		03/10/14 15:30	03/10/14 20:37	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	125		60 - 144	03/10/14 15:30	03/10/14 20:37	1

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			03/12/14 15:52	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		03/05/14 13:48	03/06/14 20:08	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:08	1
Barium	52		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:08	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:08	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:08	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:08	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:08	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:08	1
Iron	490		100	33	ug/L		03/05/14 13:48	03/06/14 20:08	1
Lead	0.72	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:08	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:08	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:08	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:08	1
Sodium	4.5		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:08	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:08	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:08	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:08	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		03/05/14 14:51	03/06/14 14:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	45		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.11		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 13:40	1
Field pH	5.1				SU			03/04/14 13:40	1
Field Temperature	22.7				Degrees C			03/04/14 13:40	1
Oxygen, Dissolved	0.3				mg/L			03/04/14 13:40	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-47048-6

Date Collected: 03/04/14 13:41

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 13:40	1
Specific Conductance	38				umhos/cm			03/04/14 13:40	1
Turbidity	7.25				NTU			03/04/14 13:40	1
Water Level	132.13				ft			03/04/14 13:40	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-47048-7

Date Collected: 03/04/14 13:12

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 04:31	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 04:31	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 04:31	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:31	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 04:31	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 04:31	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 04:31	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 04:31	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:31	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:31	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 04:31	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:31	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:31	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 04:31	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 04:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 04:31	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 04:31	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 04:31	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:31	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 04:31	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 04:31	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 04:31	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 04:31	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 04:31	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 04:31	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 04:31	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 04:31	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:31	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 04:31	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:31	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 04:31	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 04:31	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 04:31	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 04:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 04:31	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 04:31	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 04:31	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:31	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 04:31	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 04:31	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 04:31	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 04:31	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-47048-7

Date Collected: 03/04/14 13:12

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/10/14 04:31	1
Dibromofluoromethane	109		70 - 130		03/10/14 04:31	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 04:31	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/10/14 15:30	03/10/14 20:45	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	128		60 - 144	03/10/14 15:30	03/10/14 20:45	1

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			03/12/14 16:07	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		03/05/14 13:48	03/06/14 20:14	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:14	1
Barium	62		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:14	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:14	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:14	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:14	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:14	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:14	1
Iron	760		100	33	ug/L		03/05/14 13:48	03/06/14 20:14	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:14	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:14	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:14	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:14	1
Sodium	4.5		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:14	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:14	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:14	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:14	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		03/05/14 14:51	03/06/14 14:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	71		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.17		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.33		0.050	0.010	mg/L			03/05/14 12:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 13:11	1
Field pH	5.47				SU			03/04/14 13:11	1
Field Temperature	22.2				Degrees C			03/04/14 13:11	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 13:11	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-47048-7

Date Collected: 03/04/14 13:12

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 13:11	1
Specific Conductance	62				umhos/cm			03/04/14 13:11	1
Turbidity	2.04				NTU			03/04/14 13:11	1
Water Level	132.14				ft			03/04/14 13:11	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-47048-8

Date Collected: 03/04/14 12:35

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 04:52	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 04:52	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 04:52	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:52	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 04:52	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 04:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 04:52	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 04:52	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:52	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 04:52	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 04:52	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:52	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:52	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 04:52	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 04:52	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 04:52	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 04:52	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 04:52	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 04:52	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 04:52	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 04:52	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 04:52	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 04:52	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 04:52	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 04:52	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 04:52	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 04:52	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 04:52	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 04:52	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 04:52	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 04:52	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 04:52	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 04:52	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 04:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 04:52	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 04:52	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 04:52	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 04:52	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 04:52	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 04:52	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 04:52	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 04:52	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-47048-8

Date Collected: 03/04/14 12:35

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/10/14 04:52	1
Dibromofluoromethane	108		70 - 130		03/10/14 04:52	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 04:52	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		03/10/14 15:30	03/10/14 20:54	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	125		60 - 144	03/10/14 15:30	03/10/14 20:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		1.0	0.50	mg/L			03/12/14 16:22	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		03/05/14 13:48	03/06/14 20:21	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:21	1
Barium	6.1		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:21	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:21	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:21	1
Chromium	3.7	I	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:21	1
Cobalt	0.19	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:21	1
Copper	1.9	I	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:21	1
Iron	440		100	33	ug/L		03/05/14 13:48	03/06/14 20:21	1
Lead	0.46	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:21	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:21	1
Selenium	4.5		2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:21	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:21	1
Sodium	28		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:21	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:21	1
Vanadium	37		10	3.8	ug/L		03/05/14 13:48	03/06/14 20:21	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:21	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		03/05/14 14:51	03/06/14 15:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.37		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.25		0.050	0.010	mg/L			03/05/14 12:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Yellow/Bro wn Tint				PCU			03/04/14 12:34	1
Field pH	5.86				SU			03/04/14 12:34	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-47048-8

Date Collected: 03/04/14 12:35

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	20.1				Degrees C			03/04/14 12:34	1
Oxygen, Dissolved	0.5				mg/L			03/04/14 12:34	1
Sheen	None				NONE			03/04/14 12:34	1
Specific Conductance	409				umhos/cm			03/04/14 12:34	1
Turbidity	8.73				NTU			03/04/14 12:34	1
Water Level	113.7				ft			03/04/14 12:34	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-47048-9

Date Collected: 03/04/14 12:07

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 05:14	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 05:14	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 05:14	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:14	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 05:14	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 05:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 05:14	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 05:14	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:14	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:14	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 05:14	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:14	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:14	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 05:14	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 05:14	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 05:14	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 05:14	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 05:14	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:14	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 05:14	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 05:14	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 05:14	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 05:14	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 05:14	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 05:14	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 05:14	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 05:14	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:14	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 05:14	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:14	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 05:14	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 05:14	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 05:14	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 05:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 05:14	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 05:14	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 05:14	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:14	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 05:14	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 05:14	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 05:14	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 05:14	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-47048-9

Date Collected: 03/04/14 12:07

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 05:14	1
Dibromofluoromethane	107		70 - 130		03/10/14 05:14	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 05:14	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		03/10/14 15:30	03/10/14 21:02	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	126		60 - 144	03/10/14 15:30	03/10/14 21:02	1

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			03/12/14 17:39	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		03/05/14 13:48	03/06/14 20:28	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:28	1
Barium	36		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:28	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:28	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:28	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:28	1
Cobalt	0.20	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:28	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:28	1
Iron	530		100	33	ug/L		03/05/14 13:48	03/06/14 20:28	1
Lead	0.49	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:28	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:28	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:28	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:28	1
Sodium	3.8		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:28	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:28	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:28	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:28	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		03/05/14 14:51	03/06/14 15:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	41		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.10		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.036	I	0.050	0.010	mg/L			03/05/14 12:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 12:06	1
Field pH	5.16				SU			03/04/14 12:06	1
Field Temperature	25.9				Degrees C			03/04/14 12:06	1
Oxygen, Dissolved	0.1				mg/L			03/04/14 12:06	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-47048-9

Date Collected: 03/04/14 12:07

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 12:06	1
Specific Conductance	34				umhos/cm			03/04/14 12:06	1
Turbidity	3.82				NTU			03/04/14 12:06	1
Water Level	109.18				ft			03/04/14 12:06	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-47048-10

Date Collected: 03/04/14 11:35

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 05:35	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 05:35	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 05:35	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:35	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 05:35	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 05:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 05:35	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 05:35	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:35	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:35	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 05:35	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:35	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:35	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 05:35	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 05:35	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 05:35	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 05:35	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 05:35	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:35	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 05:35	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 05:35	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 05:35	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 05:35	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 05:35	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 05:35	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 05:35	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 05:35	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:35	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 05:35	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:35	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 05:35	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 05:35	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 05:35	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 05:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 05:35	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 05:35	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 05:35	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:35	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 05:35	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 05:35	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 05:35	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 05:35	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-47048-10

Date Collected: 03/04/14 11:35

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/10/14 05:35	1
Dibromofluoromethane	107		70 - 130		03/10/14 05:35	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 05:35	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		03/10/14 15:30	03/10/14 21:11	1
EDB	0.0024	U	0.021	0.0024	ug/L		03/10/14 15:30	03/10/14 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	123		60 - 144	03/10/14 15:30	03/10/14 21:11	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			03/12/14 17:54	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		03/05/14 13:48	03/06/14 20:35	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:35	1
Barium	4.0	I	5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:35	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:35	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:35	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:35	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:35	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:35	1
Iron	99	I	100	33	ug/L		03/05/14 13:48	03/06/14 20:35	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:35	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:35	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:35	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:35	1
Sodium	9.9		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:35	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:35	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:35	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:35	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		03/05/14 14:51	03/06/14 15:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.37		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 11:34	1
Field pH	5.91				SU			03/04/14 11:34	1
Field Temperature	20.7				Degrees C			03/04/14 11:34	1
Oxygen, Dissolved	0.2				mg/L			03/04/14 11:34	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-47048-10

Date Collected: 03/04/14 11:35

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 11:34	1
Specific Conductance	287				umhos/cm			03/04/14 11:34	1
Turbidity	4.01				NTU			03/04/14 11:34	1
Water Level	115.62				ft			03/04/14 11:34	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-47048-11

Date Collected: 03/04/14 11:03

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 05:57	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 05:57	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 05:57	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:57	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 05:57	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 05:57	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 05:57	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 05:57	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:57	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 05:57	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 05:57	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:57	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:57	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 05:57	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 05:57	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 05:57	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 05:57	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 05:57	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 05:57	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 05:57	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 05:57	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 05:57	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 05:57	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 05:57	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 05:57	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 05:57	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 05:57	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 05:57	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 05:57	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 05:57	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 05:57	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 05:57	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 05:57	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 05:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 05:57	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 05:57	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 05:57	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 05:57	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 05:57	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 05:57	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 05:57	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 05:57	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-47048-11

Date Collected: 03/04/14 11:03

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 05:57	1
Dibromofluoromethane	108		70 - 130		03/10/14 05:57	1
Toluene-d8 (Surr)	95		70 - 130		03/10/14 05:57	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		03/10/14 15:30	03/10/14 21:20	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/10/14 15:30	03/10/14 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	121		60 - 144	03/10/14 15:30	03/10/14 21:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		0.50	0.25	mg/L			03/12/14 18:10	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		03/05/14 13:48	03/06/14 20:41	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:41	1
Barium	26		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:41	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:41	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:41	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:41	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:41	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:41	1
Iron	790		100	33	ug/L		03/05/14 13:48	03/06/14 20:41	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:41	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:41	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:41	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:41	1
Sodium	4.3		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:41	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:41	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:41	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:41	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		03/05/14 14:51	03/06/14 15:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	69		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	1.1		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 11:02	1
Field pH	5.11				SU			03/04/14 11:02	1
Field Temperature	21.6				Degrees C			03/04/14 11:02	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 11:02	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-47048-11

Date Collected: 03/04/14 11:03

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 11:02	1
Specific Conductance	81				umhos/cm			03/04/14 11:02	1
Turbidity	3.3				NTU			03/04/14 11:02	1
Water Level	112.69				ft			03/04/14 11:02	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-47048-12

Date Collected: 03/04/14 10:29

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 06:18	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 06:18	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 06:18	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 06:18	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 06:18	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 06:18	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 06:18	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 06:18	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 06:18	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 06:18	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 06:18	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 06:18	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 06:18	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 06:18	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 06:18	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 06:18	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 06:18	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 06:18	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 06:18	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 06:18	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 06:18	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 06:18	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 06:18	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 06:18	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 06:18	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 06:18	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 06:18	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 06:18	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 06:18	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 06:18	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 06:18	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 06:18	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 06:18	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 06:18	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 06:18	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 06:18	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 06:18	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:18	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 06:18	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 06:18	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 06:18	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 06:18	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-47048-12

Date Collected: 03/04/14 10:29

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 06:18	1
Dibromofluoromethane	108		70 - 130		03/10/14 06:18	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 06:18	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/10/14 15:30	03/10/14 21:28	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	123		60 - 144	03/10/14 15:30	03/10/14 21:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		0.50	0.25	mg/L			03/12/14 18:25	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		03/05/14 13:48	03/06/14 20:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:48	1
Barium	5.0		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:48	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:48	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:48	1
Iron	260		100	33	ug/L		03/05/14 13:48	03/06/14 20:48	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:48	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:48	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:48	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:48	1
Sodium	4.2		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:48	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:48	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:48	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:48	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		03/05/14 14:51	03/06/14 15:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.13		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Brown				PCU			03/04/14 10:28	1
Field pH	5.38				SU			03/04/14 10:28	1
Field Temperature	21.7				Degrees C			03/04/14 10:28	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-47048-12

Date Collected: 03/04/14 10:29

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.0				mg/L			03/04/14 10:28	1
Sheen	None				NONE			03/04/14 10:28	1
Specific Conductance	46				umhos/cm			03/04/14 10:28	1
Turbidity	6.31				NTU			03/04/14 10:28	1
Water Level	131.93				ft			03/04/14 10:28	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Date Collected: 03/04/14 09:58

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 06:40	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 06:40	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 06:40	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 06:40	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 06:40	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 06:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 06:40	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 06:40	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 06:40	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 06:40	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 06:40	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 06:40	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 06:40	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 06:40	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 06:40	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 06:40	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 06:40	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 06:40	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 06:40	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 06:40	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 06:40	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 06:40	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 06:40	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 06:40	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 06:40	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 06:40	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 06:40	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 06:40	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 06:40	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 06:40	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 06:40	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 06:40	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 06:40	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 06:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 06:40	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 06:40	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 06:40	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 06:40	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 06:40	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 06:40	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 06:40	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 06:40	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Date Collected: 03/04/14 09:58

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 06:40	1
Dibromofluoromethane	107		70 - 130		03/10/14 06:40	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 06:40	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		03/10/14 15:30	03/10/14 21:37	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	127		60 - 144	03/10/14 15:30	03/10/14 21:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		0.50	0.25	mg/L			03/12/14 18:40	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		03/05/14 13:48	03/06/14 20:55	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 20:55	1
Barium	41		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 20:55	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 20:55	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 20:55	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 20:55	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 20:55	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 20:55	1
Iron	360		100	33	ug/L		03/05/14 13:48	03/06/14 20:55	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 20:55	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 20:55	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 20:55	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 20:55	1
Sodium	4.0		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 20:55	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 20:55	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 20:55	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 20:55	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		03/05/14 14:51	03/06/14 15:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.045	I	0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 09:57	1
Field pH	4.82				SU			03/04/14 09:57	1
Field Temperature	22.4				Degrees C			03/04/14 09:57	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 09:57	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Date Collected: 03/04/14 09:58

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 09:57	1
Specific Conductance	30				umhos/cm			03/04/14 09:57	1
Turbidity	1.85				NTU			03/04/14 09:57	1
Water Level	135.77				ft			03/04/14 09:57	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-47048-14

Date Collected: 03/04/14 09:29

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 07:01	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 07:01	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 07:01	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:01	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 07:01	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 07:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 07:01	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 07:01	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:01	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:01	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 07:01	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:01	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:01	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 07:01	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 07:01	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 07:01	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 07:01	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 07:01	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:01	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 07:01	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 07:01	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 07:01	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 07:01	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 07:01	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 07:01	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 07:01	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 07:01	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:01	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 07:01	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:01	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 07:01	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 07:01	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 07:01	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 07:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 07:01	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 07:01	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 07:01	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:01	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 07:01	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 07:01	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 07:01	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 07:01	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-47048-14

Date Collected: 03/04/14 09:29

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/10/14 07:01	1
Dibromofluoromethane	107		70 - 130		03/10/14 07:01	1
Toluene-d8 (Surr)	95		70 - 130		03/10/14 07:01	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		03/10/14 15:30	03/10/14 21:45	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	133		60 - 144	03/10/14 15:30	03/10/14 21:45	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.3		0.50	0.25	mg/L			03/12/14 18:56	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		03/05/14 13:48	03/06/14 21:02	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 21:02	1
Barium	33		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 21:02	1
Beryllium	0.28	I	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 21:02	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 21:02	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 21:02	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 21:02	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 21:02	1
Iron	350		100	33	ug/L		03/05/14 13:48	03/06/14 21:02	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 21:02	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 21:02	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 21:02	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 21:02	1
Sodium	3.9		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 21:02	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 21:02	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 21:02	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 21:02	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		03/05/14 14:51	03/06/14 15:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		5.0	5.0	mg/L			03/11/14 11:25	1
Ammonia (as N)	0.087		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 09:28	1
Field pH	5.38				SU			03/04/14 09:28	1
Field Temperature	22.5				Degrees C			03/04/14 09:28	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 09:28	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-47048-14

Date Collected: 03/04/14 09:29

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 09:28	1
Specific Conductance	49				umhos/cm			03/04/14 09:28	1
Turbidity	1.83				NTU			03/04/14 09:28	1
Water Level	131.96				ft			03/04/14 09:28	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-47048-15

Date Collected: 03/04/14 08:55

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 07:23	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 07:23	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 07:23	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:23	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 07:23	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 07:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 07:23	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 07:23	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:23	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:23	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 07:23	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:23	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:23	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 07:23	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 07:23	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 07:23	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 07:23	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 07:23	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:23	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 07:23	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 07:23	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 07:23	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 07:23	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 07:23	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 07:23	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 07:23	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 07:23	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:23	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 07:23	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:23	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 07:23	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 07:23	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 07:23	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 07:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 07:23	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 07:23	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 07:23	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:23	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 07:23	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 07:23	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 07:23	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 07:23	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-47048-15

Date Collected: 03/04/14 08:55

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130		03/10/14 07:23	1
Dibromofluoromethane	106		70 - 130		03/10/14 07:23	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 07:23	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		03/10/14 15:30	03/10/14 21:54	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	127		60 - 144	03/10/14 15:30	03/10/14 21:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50	0.25	mg/L			03/12/14 19:11	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		03/05/14 13:48	03/06/14 21:22	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 21:22	1
Barium	78		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 21:22	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 21:22	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 21:22	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 21:22	1
Cobalt	0.30	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 21:22	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 21:22	1
Iron	1300		100	33	ug/L		03/05/14 13:48	03/06/14 21:22	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 21:22	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 21:22	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 21:22	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 21:22	1
Sodium	11		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 21:22	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 21:22	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 21:22	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 21:22	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		03/05/14 14:51	03/06/14 15:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		5.0	5.0	mg/L			03/11/14 12:21	1
Ammonia (as N)	0.50		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 08:54	1
Field pH	4.66				SU			03/04/14 08:54	1
Field Temperature	21.8				Degrees C			03/04/14 08:54	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 08:54	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-47048-15

Date Collected: 03/04/14 08:55

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 08:54	1
Specific Conductance	108				umhos/cm			03/04/14 08:54	1
Turbidity	3.47				NTU			03/04/14 08:54	1
Water Level	121.25				ft			03/04/14 08:54	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-47048-16

Date Collected: 03/04/14 08:26

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 07:44	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 07:44	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 07:44	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:44	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 07:44	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 07:44	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 07:44	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 07:44	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:44	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 07:44	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 07:44	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:44	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:44	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 07:44	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 07:44	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 07:44	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 07:44	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 07:44	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 07:44	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 07:44	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 07:44	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 07:44	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 07:44	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 07:44	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 07:44	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 07:44	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 07:44	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 07:44	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 07:44	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 07:44	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 07:44	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 07:44	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 07:44	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 07:44	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 07:44	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 07:44	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 07:44	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 07:44	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 07:44	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 07:44	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 07:44	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 07:44	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-47048-16

Date Collected: 03/04/14 08:26

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/10/14 07:44	1
Dibromofluoromethane	108		70 - 130		03/10/14 07:44	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 07:44	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		03/10/14 15:30	03/10/14 22:02	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	125		60 - 144	03/10/14 15:30	03/10/14 22:02	1

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			03/12/14 19:26	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		03/05/14 13:48	03/06/14 21:29	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 21:29	1
Barium	71		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 21:29	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 21:29	1
Cadmium	0.60		0.50	0.095	ug/L		03/05/14 13:48	03/06/14 21:29	1
Chromium	3.3	I	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 21:29	1
Cobalt	2.5		0.50	0.15	ug/L		03/05/14 13:48	03/06/14 21:29	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 21:29	1
Iron	960		100	33	ug/L		03/05/14 13:48	03/06/14 21:29	1
Lead	0.85	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 21:29	1
Nickel	4.7	I	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 21:29	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 21:29	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 21:29	1
Sodium	4.1		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 21:29	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 21:29	1
Vanadium	5.0	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 21:29	1
Zinc	15	I	20	8.3	ug/L		03/05/14 13:48	03/06/14 21:29	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		03/05/14 14:51	03/06/14 15:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		5.0	5.0	mg/L			03/11/14 12:21	1
Ammonia (as N)	0.056		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 08:25	1
Field pH	4.94				SU			03/04/14 08:25	1
Field Temperature	22.9				Degrees C			03/04/14 08:25	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 08:25	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-47048-16

Date Collected: 03/04/14 08:26

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 08:25	1
Specific Conductance	34				umhos/cm			03/04/14 08:25	1
Turbidity	7.4				NTU			03/04/14 08:25	1
Water Level	121.44				ft			03/04/14 08:25	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-47048-17

Date Collected: 03/04/14 07:57

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 08:05	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 08:05	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 08:05	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 08:05	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 08:05	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 08:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 08:05	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 08:05	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 08:05	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 08:05	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 08:05	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 08:05	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 08:05	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 08:05	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 08:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 08:05	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 08:05	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 08:05	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 08:05	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 08:05	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 08:05	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 08:05	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 08:05	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 08:05	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 08:05	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 08:05	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 08:05	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 08:05	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 08:05	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 08:05	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 08:05	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 08:05	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 08:05	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 08:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 08:05	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 08:05	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 08:05	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:05	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 08:05	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 08:05	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 08:05	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 08:05	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-47048-17

Date Collected: 03/04/14 07:57

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 08:05	1
Dibromofluoromethane	107		70 - 130		03/10/14 08:05	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 08:05	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		03/10/14 15:30	03/10/14 22:11	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	120		60 - 144	03/10/14 15:30	03/10/14 22:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		0.50	0.25	mg/L			03/12/14 20:58	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		03/05/14 13:48	03/06/14 21:36	1
Arsenic	1.7	I	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 21:36	1
Barium	110		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 21:36	1
Beryllium	0.31	I	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 21:36	1
Cadmium	0.18	I	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 21:36	1
Chromium	3.1	I	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 21:36	1
Cobalt	0.38	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 21:36	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 21:36	1
Iron	2200		100	33	ug/L		03/05/14 13:48	03/06/14 21:36	1
Lead	0.57	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 21:36	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 21:36	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 21:36	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 21:36	1
Sodium	5.0		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 21:36	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 21:36	1
Vanadium	5.9	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 21:36	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 21:36	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		03/05/14 14:51	03/06/14 15:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			03/11/14 12:21	1
Ammonia (as N)	0.11		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 13:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/04/14 07:56	1
Field pH	6.95				SU			03/04/14 07:56	1
Field Temperature	22.3				Degrees C			03/04/14 07:56	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 07:56	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-47048-17

Date Collected: 03/04/14 07:57

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 07:56	1
Specific Conductance	346				umhos/cm			03/04/14 07:56	1
Turbidity	4.89				NTU			03/04/14 07:56	1
Water Level	121.93				ft			03/04/14 07:56	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Date Collected: 03/04/14 07:21

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 08:27	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 08:27	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 08:27	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 08:27	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 08:27	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 08:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 08:27	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 08:27	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 08:27	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 08:27	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 08:27	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 08:27	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 08:27	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 08:27	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 08:27	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 08:27	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 08:27	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 08:27	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 08:27	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 08:27	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 08:27	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 08:27	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 08:27	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 08:27	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 08:27	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 08:27	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 08:27	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 08:27	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 08:27	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 08:27	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 08:27	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 08:27	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 08:27	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 08:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 08:27	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 08:27	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 08:27	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 08:27	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 08:27	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 08:27	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 08:27	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 08:27	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Date Collected: 03/04/14 07:21

Matrix: Water

Date Received: 03/05/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/10/14 08:27	1
Dibromofluoromethane	108		70 - 130		03/10/14 08:27	1
Toluene-d8 (Surr)	97		70 - 130		03/10/14 08:27	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		03/10/14 15:30	03/10/14 22:19	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/10/14 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	126		60 - 144	03/10/14 15:30	03/10/14 22:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		0.50	0.25	mg/L			03/12/14 21:14	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		03/05/14 13:48	03/06/14 21:43	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 21:43	1
Barium	12		5.0	1.3	ug/L		03/05/14 13:48	03/06/14 21:43	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 21:43	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 21:43	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 21:43	1
Cobalt	0.20	I	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 21:43	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 21:43	1
Iron	250		100	33	ug/L		03/05/14 13:48	03/06/14 21:43	1
Lead	0.65	I	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 21:43	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 21:43	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 21:43	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 21:43	1
Sodium	7.0		0.50	0.25	mg/L		03/05/14 13:48	03/06/14 21:43	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 21:43	1
Vanadium	5.6	I	10	3.8	ug/L		03/05/14 13:48	03/06/14 21:43	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 21:43	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		03/05/14 14:51	03/06/14 15:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	73		5.0	5.0	mg/L			03/11/14 12:21	1
Ammonia (as N)	0.32		0.050	0.026	mg/L			03/17/14 16:49	1
Nitrate as N	0.37		0.050	0.010	mg/L			03/05/14 13:12	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			03/04/14 07:20	1
Field pH	4.25				SU			03/04/14 07:20	1
Field Temperature	19.7				Degrees C			03/04/14 07:20	1
Oxygen, Dissolved	0.0				mg/L			03/04/14 07:20	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Date Collected: 03/04/14 07:21

Matrix: Water

Date Received: 03/05/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/04/14 07:20	1
Specific Conductance	81				umhos/cm			03/04/14 07:20	1
Turbidity	6.14				NTU			03/04/14 07:20	1
Water Level	113.93				ft			03/04/14 07:20	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 01 47048

Lab Sample ID: 640-47048-19

Date Collected: 03/04/14 00:00

Matrix: Water

Date Received: 03/05/14 08:15

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			03/10/14 02:00	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 02:00	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 02:00	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:00	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 02:00	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 02:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 02:00	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 02:00	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:00	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 02:00	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 02:00	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:00	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:00	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 02:00	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 02:00	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 02:00	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 02:00	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 02:00	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 02:00	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 02:00	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 02:00	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 02:00	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 02:00	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 02:00	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 02:00	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 02:00	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 02:00	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 02:00	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 02:00	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 02:00	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 02:00	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 02:00	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 02:00	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 02:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 02:00	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 02:00	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 02:00	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 02:00	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 02:00	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 02:00	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 02:00	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 02:00	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 01 47048

Lab Sample ID: 640-47048-19

Date Collected: 03/04/14 00:00

Matrix: Water

Date Received: 03/05/14 08:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	89		70 - 130		03/10/14 02:00	1
Dibromofluoromethane	107		70 - 130		03/10/14 02:00	1
Toluene-d8 (Surr)	96		70 - 130		03/10/14 02:00	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-47063-1

Date Collected: 03/05/14 12:54

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 17:53	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 17:53	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 17:53	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 17:53	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 17:53	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 17:53	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 17:53	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 17:53	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 17:53	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 17:53	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 17:53	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 17:53	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 17:53	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 17:53	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 17:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 17:53	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 17:53	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 17:53	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 17:53	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 17:53	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 17:53	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 17:53	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 17:53	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 17:53	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 17:53	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 17:53	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 17:53	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 17:53	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 17:53	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 17:53	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 17:53	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 17:53	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 17:53	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 17:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 17:53	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 17:53	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 17:53	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 17:53	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 17:53	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 17:53	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 17:53	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 17:53	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-47063-1

Date Collected: 03/05/14 12:54

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130		03/11/14 17:53	1
Dibromofluoromethane	106		70 - 130		03/11/14 17:53	1
Toluene-d8 (Surr)	93		70 - 130		03/11/14 17:53	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.021	0.0054	ug/L		03/10/14 15:30	03/11/14 00:10	1
EDB	0.0024	U	0.021	0.0024	ug/L		03/10/14 15:30	03/11/14 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	121		60 - 144	03/10/14 15:30	03/11/14 00:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.3		0.50	0.25	mg/L			03/18/14 12:08	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		03/06/14 10:29	03/07/14 05:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 05:48	1
Barium	27		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 05:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 05:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 05:48	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 05:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 05:48	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 05:48	1
Iron	820		100	33	ug/L		03/06/14 10:29	03/07/14 05:48	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 05:48	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 05:48	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 05:48	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 05:48	1
Sodium	3.8		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 05:48	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 05:48	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 05:48	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 05:48	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		03/07/14 09:44	03/10/14 10:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	5.0	mg/L			03/12/14 14:36	1
Ammonia (as N)	0.15		0.050	0.026	mg/L			03/17/14 16:58	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 16:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 12:53	1
Field pH	4.81				SU			03/05/14 12:53	1
Field Temperature	21.2				Degrees C			03/05/14 12:53	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 12:53	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-47063-1

Date Collected: 03/05/14 12:54

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 12:53	1
Specific Conductance	37				umhos/cm			03/05/14 12:53	1
Turbidity	2.04				NTU			03/05/14 12:53	1
Water Level	139.43				ft			03/05/14 12:53	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

Date Collected: 03/05/14 12:19

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 18:16	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 18:16	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 18:16	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:16	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 18:16	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 18:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 18:16	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 18:16	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:16	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:16	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 18:16	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:16	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:16	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 18:16	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 18:16	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 18:16	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 18:16	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 18:16	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:16	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 18:16	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 18:16	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 18:16	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 18:16	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 18:16	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 18:16	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 18:16	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 18:16	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:16	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 18:16	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:16	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 18:16	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 18:16	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 18:16	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 18:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 18:16	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 18:16	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 18:16	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:16	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 18:16	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 18:16	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 18:16	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 18:16	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

Date Collected: 03/05/14 12:19

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130		03/11/14 18:16	1
Dibromofluoromethane	108		70 - 130		03/11/14 18:16	1
Toluene-d8 (Surr)	91		70 - 130		03/11/14 18:16	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		03/10/14 15:30	03/11/14 00:19	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	124		60 - 144	03/10/14 15:30	03/11/14 00:19	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			03/18/14 12:51	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		03/06/14 10:29	03/07/14 06:25	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 06:25	1
Barium	13		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 06:25	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 06:25	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 06:25	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 06:25	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 06:25	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 06:25	1
Iron	430		100	33	ug/L		03/06/14 10:29	03/07/14 06:25	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 06:25	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 06:25	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 06:25	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 06:25	1
Sodium	5.2		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 06:25	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 06:25	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 06:25	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 06:25	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		03/07/14 09:44	03/10/14 10:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.054		0.050	0.026	mg/L			03/17/14 16:58	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 16:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 12:18	1
Field pH	4.51				SU			03/05/14 12:18	1
Field Temperature	18.5				Degrees C			03/05/14 12:18	1
Oxygen, Dissolved	0.8				mg/L			03/05/14 12:18	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

Date Collected: 03/05/14 12:19

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 12:18	1
Specific Conductance	56				umhos/cm			03/05/14 12:18	1
Turbidity	3.16				NTU			03/05/14 12:18	1
Water Level	147.52				ft			03/05/14 12:18	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-47063-3

Date Collected: 03/05/14 11:46

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 18:39	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 18:39	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 18:39	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:39	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 18:39	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 18:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 18:39	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 18:39	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:39	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:39	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 18:39	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:39	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:39	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 18:39	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 18:39	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 18:39	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 18:39	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 18:39	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:39	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 18:39	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 18:39	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 18:39	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 18:39	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 18:39	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 18:39	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 18:39	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 18:39	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:39	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 18:39	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:39	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 18:39	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 18:39	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 18:39	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 18:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 18:39	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 18:39	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 18:39	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:39	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 18:39	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 18:39	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 18:39	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 18:39	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-47063-3

Date Collected: 03/05/14 11:46

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130		03/11/14 18:39	1
Dibromofluoromethane	105		70 - 130		03/11/14 18:39	1
Toluene-d8 (Surr)	87		70 - 130		03/11/14 18:39	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/10/14 15:30	03/11/14 00:27	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	126		60 - 144	03/10/14 15:30	03/11/14 00:27	1

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			03/18/14 13:06	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		03/06/14 10:29	03/07/14 06:32	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 06:32	1
Barium	98		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 06:32	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 06:32	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 06:32	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 06:32	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 06:32	1
Copper	1.6	I	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 06:32	1
Iron	940		100	33	ug/L		03/06/14 10:29	03/07/14 06:32	1
Lead	0.57	I	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 06:32	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 06:32	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 06:32	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 06:32	1
Sodium	7.1		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 06:32	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 06:32	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 06:32	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 06:32	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		03/07/14 09:44	03/10/14 10:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.36		0.050	0.026	mg/L			03/17/14 16:58	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 16:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 11:45	1
Field pH	6.9				SU			03/05/14 11:45	1
Field Temperature	22.1				Degrees C			03/05/14 11:45	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 11:45	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-47063-3

Date Collected: 03/05/14 11:46

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 11:45	1
Specific Conductance	344				umhos/cm			03/05/14 11:45	1
Turbidity	4.82				NTU			03/05/14 11:45	1
Water Level	138.86				ft			03/05/14 11:45	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

Date Collected: 03/05/14 11:10

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 19:01	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 19:01	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:01	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 19:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 19:01	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:01	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:01	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 19:01	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:01	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 19:01	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 19:01	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 19:01	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 19:01	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:01	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 19:01	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 19:01	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 19:01	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:01	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 19:01	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 19:01	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 19:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 19:01	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 19:01	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 19:01	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 19:01	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

Date Collected: 03/05/14 11:10

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/11/14 19:01	1
Dibromofluoromethane	105		70 - 130		03/11/14 19:01	1
Toluene-d8 (Surr)	90		70 - 130		03/11/14 19:01	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		03/10/14 15:30	03/11/14 00:36	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	119		60 - 144	03/10/14 15:30	03/11/14 00:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		0.50	0.25	mg/L			03/18/14 13:20	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		03/06/14 10:29	03/07/14 06:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 06:40	1
Barium	9.8		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 06:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 06:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 06:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 06:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 06:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 06:40	1
Iron	160		100	33	ug/L		03/06/14 10:29	03/07/14 06:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 06:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 06:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 06:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 06:40	1
Sodium	4.4		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 06:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 06:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 06:40	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 06:40	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		03/07/14 09:44	03/10/14 10:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	37		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.072		0.050	0.026	mg/L			03/17/14 17:30	1
Nitrate as N	0.25		0.050	0.010	mg/L			03/06/14 17:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 11:09	1
Field pH	4.45				SU			03/05/14 11:09	1
Field Temperature	17.0				Degrees C			03/05/14 11:09	1
Oxygen, Dissolved	0.7				mg/L			03/05/14 11:09	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

Date Collected: 03/05/14 11:10

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 11:09	1
Specific Conductance	62				umhos/cm			03/05/14 11:09	1
Turbidity	2.93				NTU			03/05/14 11:09	1
Water Level	138.69				ft			03/05/14 11:09	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-47063-5

Date Collected: 03/05/14 10:39

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 19:24	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 19:24	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 19:24	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:24	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 19:24	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 19:24	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 19:24	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 19:24	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:24	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:24	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 19:24	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:24	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:24	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 19:24	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 19:24	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 19:24	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 19:24	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 19:24	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:24	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 19:24	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 19:24	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 19:24	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 19:24	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 19:24	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 19:24	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 19:24	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 19:24	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:24	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 19:24	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:24	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 19:24	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 19:24	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 19:24	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 19:24	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 19:24	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 19:24	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 19:24	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:24	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 19:24	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 19:24	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 19:24	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 19:24	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-47063-5

Date Collected: 03/05/14 10:39

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		03/11/14 19:24	1
Dibromofluoromethane	105		70 - 130		03/11/14 19:24	1
Toluene-d8 (Surr)	92		70 - 130		03/11/14 19:24	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		03/10/14 15:30	03/11/14 00:44	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	120		60 - 144	03/10/14 15:30	03/11/14 00:44	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			03/18/14 13:34	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		03/06/14 10:29	03/07/14 07:02	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:02	1
Barium	22		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:02	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:02	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:02	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:02	1
Cobalt	0.19	I	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:02	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:02	1
Iron	440		100	33	ug/L		03/06/14 10:29	03/07/14 07:02	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:02	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:02	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:02	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:02	1
Sodium	5.1		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:02	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:02	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:02	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:02	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		03/07/14 09:44	03/10/14 10:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.082		0.050	0.026	mg/L			03/17/14 17:30	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 10:38	1
Field pH	4.77				SU			03/05/14 10:38	1
Field Temperature	20.6				Degrees C			03/05/14 10:38	1
Oxygen, Dissolved	0.4				mg/L			03/05/14 10:38	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-47063-5

Date Collected: 03/05/14 10:39

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 10:38	1
Specific Conductance	38				umhos/cm			03/05/14 10:38	1
Turbidity	4.21				NTU			03/05/14 10:38	1
Water Level	136.18				ft			03/05/14 10:38	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-47063-6

Date Collected: 03/05/14 10:04

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 19:46	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 19:46	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 19:46	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:46	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 19:46	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 19:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 19:46	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 19:46	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:46	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:46	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 19:46	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:46	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:46	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 19:46	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 19:46	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 19:46	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 19:46	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 19:46	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:46	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 19:46	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 19:46	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 19:46	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 19:46	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 19:46	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 19:46	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 19:46	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 19:46	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:46	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 19:46	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:46	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 19:46	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 19:46	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 19:46	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 19:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 19:46	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 19:46	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 19:46	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:46	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 19:46	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 19:46	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 19:46	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 19:46	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(S)

Lab Sample ID: 640-47063-6

Date Collected: 03/05/14 10:04

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130		03/11/14 19:46	1
Dibromofluoromethane	106		70 - 130		03/11/14 19:46	1
Toluene-d8 (Surr)	92		70 - 130		03/11/14 19:46	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/10/14 15:30	03/11/14 00:53	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/10/14 15:30	03/11/14 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	123		60 - 144	03/10/14 15:30	03/11/14 00:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59		2.0	1.0	mg/L			03/18/14 13:49	4

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		03/06/14 10:29	03/07/14 07:09	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:09	1
Barium	5.2		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:09	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:09	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:09	1
Chromium	3.3	I	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:09	1
Cobalt	0.79		0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:09	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:09	1
Iron	370		100	33	ug/L		03/06/14 10:29	03/07/14 07:09	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:09	1
Nickel	8.5		5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:09	1
Selenium	1.1	I	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:09	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:09	1
Sodium	96		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:09	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:09	1
Vanadium	14		10	3.8	ug/L		03/06/14 10:29	03/07/14 07:09	1
Zinc	33		20	8.3	ug/L		03/06/14 10:29	03/07/14 07:09	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		03/07/14 09:44	03/10/14 10:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10	10	mg/L			03/12/14 14:27	1
Ammonia (as N)	2.0		0.10	0.052	mg/L			03/17/14 17:40	2
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			03/05/14 10:03	1
Field pH	6.04				SU			03/05/14 10:03	1
Field Temperature	21.3				Degrees C			03/05/14 10:03	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 10:03	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-47063-6

Date Collected: 03/05/14 10:04

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 10:03	1
Specific Conductance	828				umhos/cm			03/05/14 10:03	1
Turbidity	2.3				NTU			03/05/14 10:03	1
Water Level	117.24				ft			03/05/14 10:03	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-47063-7

Date Collected: 03/05/14 09:33

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 20:09	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 20:09	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 20:09	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:09	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 20:09	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 20:09	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 20:09	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 20:09	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:09	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:09	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 20:09	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:09	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:09	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 20:09	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 20:09	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 20:09	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 20:09	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 20:09	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:09	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 20:09	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 20:09	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 20:09	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 20:09	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 20:09	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 20:09	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 20:09	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 20:09	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:09	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 20:09	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:09	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 20:09	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 20:09	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 20:09	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 20:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 20:09	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 20:09	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 20:09	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:09	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 20:09	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 20:09	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 20:09	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 20:09	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-47063-7

Date Collected: 03/05/14 09:33

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130		03/11/14 20:09	1
Dibromofluoromethane	105		70 - 130		03/11/14 20:09	1
Toluene-d8 (Surr)	96		70 - 130		03/11/14 20:09	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		03/10/14 15:30	03/11/14 01:02	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	129		60 - 144	03/10/14 15:30	03/11/14 01:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		0.50	0.25	mg/L			03/18/14 14:03	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		03/06/14 10:29	03/07/14 07:17	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:17	1
Barium	49		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:17	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:17	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:17	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:17	1
Cobalt	0.19	I	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:17	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:17	1
Iron	500		100	33	ug/L		03/06/14 10:29	03/07/14 07:17	1
Lead	0.62	I	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:17	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:17	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:17	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:17	1
Sodium	3.4		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:17	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:17	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:17	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:17	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		03/07/14 09:44	03/10/14 10:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	37		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.078		0.050	0.026	mg/L			03/17/14 17:30	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 09:32	1
Field pH	5.31				SU			03/05/14 09:32	1
Field Temperature	25.4				Degrees C			03/05/14 09:32	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 09:32	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-47063-7

Date Collected: 03/05/14 09:33

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 09:32	1
Specific Conductance	42				umhos/cm			03/05/14 09:32	1
Turbidity	5.0				NTU			03/05/14 09:32	1
Water Level	118.04				ft			03/05/14 09:32	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-47063-8

Date Collected: 03/05/14 09:02

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 20:31	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 20:31	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 20:31	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:31	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 20:31	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 20:31	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 20:31	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 20:31	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:31	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:31	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 20:31	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:31	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:31	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 20:31	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 20:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 20:31	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 20:31	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 20:31	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:31	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 20:31	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 20:31	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 20:31	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 20:31	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 20:31	1
Methylene Chloride	1.0	J U	5.0	1.0	ug/L			03/11/14 20:31	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 20:31	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 20:31	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:31	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 20:31	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:31	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 20:31	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 20:31	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 20:31	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 20:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 20:31	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 20:31	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 20:31	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:31	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 20:31	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 20:31	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 20:31	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 20:31	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-47063-8

Date Collected: 03/05/14 09:02

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/11/14 20:31	1
Dibromofluoromethane	103		70 - 130		03/11/14 20:31	1
Toluene-d8 (Surr)	93		70 - 130		03/11/14 20:31	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		03/10/14 15:30	03/11/14 01:10	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	143		60 - 144	03/10/14 15:30	03/11/14 01:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		0.50	0.25	mg/L			03/18/14 14:18	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		03/06/14 10:29	03/07/14 07:24	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:24	1
Barium	100		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:24	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:24	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:24	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:24	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:24	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:24	1
Iron	520		100	33	ug/L		03/06/14 10:29	03/07/14 07:24	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:24	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:24	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:24	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:24	1
Sodium	6.5		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:24	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:24	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:24	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:24	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		03/07/14 09:44	03/10/14 10:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.25		0.050	0.026	mg/L			03/17/14 17:30	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 09:01	1
Field pH	7.29				SU			03/05/14 09:01	1
Field Temperature	24.2				Degrees C			03/05/14 09:01	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 09:01	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-47063-8

Date Collected: 03/05/14 09:02

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 09:01	1
Specific Conductance	408				umhos/cm			03/05/14 09:01	1
Turbidity	1.36				NTU			03/05/14 09:01	1
Water Level	118.0				ft			03/05/14 09:01	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Date Collected: 03/05/14 08:19

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 19:01	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 19:01	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:01	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 19:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 19:01	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:01	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:01	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 19:01	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:01	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 19:01	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 19:01	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 19:01	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 19:01	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:01	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 19:01	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 19:01	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 19:01	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 19:01	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 19:01	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:01	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 19:01	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 19:01	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 19:01	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 19:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 19:01	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 19:01	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:01	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 19:01	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 19:01	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 19:01	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 19:01	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Date Collected: 03/05/14 08:19

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/11/14 19:01	1
Dibromofluoromethane	105		70 - 130		03/11/14 19:01	1
Toluene-d8 (Surr)	95		70 - 130		03/11/14 19:01	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		03/10/14 15:30	03/11/14 01:19	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	126		60 - 144	03/10/14 15:30	03/11/14 01:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50	0.25	mg/L			03/18/14 15:01	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		03/06/14 10:29	03/07/14 07:31	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:31	1
Barium	32		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:31	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:31	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:31	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:31	1
Cobalt	0.16	I	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:31	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:31	1
Iron	100		100	33	ug/L		03/06/14 10:29	03/07/14 07:31	1
Lead	0.34	I	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:31	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:31	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:31	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:31	1
Sodium	12		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:31	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:31	1
Vanadium	5.1	I	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:31	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:31	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		03/07/14 09:44	03/10/14 10:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.42		0.050	0.026	mg/L			03/17/14 16:58	1
Nitrate as N	1.8		0.10	0.020	mg/L			03/06/14 17:10	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Brown				PCU			03/05/14 08:18	1
Field pH	5.11				SU			03/05/14 08:18	1
Field Temperature	17.8				Degrees C			03/05/14 08:18	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Date Collected: 03/05/14 08:19

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.0				mg/L			03/05/14 08:18	1
Sheen	None				NONE			03/05/14 08:18	1
Specific Conductance	167				umhos/cm			03/05/14 08:18	1
Turbidity	7.32				NTU			03/05/14 08:18	1
Water Level	121.96				ft			03/05/14 08:18	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-47063-10

Date Collected: 03/05/14 07:48

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 19:32	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 19:32	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 19:32	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:32	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 19:32	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 19:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 19:32	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 19:32	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:32	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 19:32	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 19:32	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:32	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:32	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 19:32	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 19:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 19:32	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 19:32	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 19:32	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 19:32	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 19:32	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 19:32	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 19:32	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 19:32	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 19:32	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 19:32	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 19:32	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 19:32	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 19:32	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 19:32	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 19:32	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 19:32	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 19:32	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 19:32	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 19:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 19:32	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 19:32	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 19:32	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 19:32	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 19:32	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 19:32	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 19:32	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 19:32	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-47063-10

Date Collected: 03/05/14 07:48

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		70 - 130		03/11/14 19:32	1
Dibromofluoromethane	106		70 - 130		03/11/14 19:32	1
Toluene-d8 (Surr)	94		70 - 130		03/11/14 19:32	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.020	0.0051	ug/L		03/10/14 15:30	03/11/14 01:27	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/10/14 15:30	03/11/14 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	145	J	60 - 144	03/10/14 15:30	03/11/14 01:27	1

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			03/18/14 15:15	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		03/06/14 10:29	03/07/14 07:39	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:39	1
Barium	51		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:39	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:39	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:39	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:39	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:39	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:39	1
Iron	530		100	33	ug/L		03/06/14 10:29	03/07/14 07:39	1
Lead	0.43	I	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:39	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:39	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:39	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:39	1
Sodium	3.7		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:39	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:39	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:39	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:39	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		03/07/14 09:44	03/10/14 10:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	31		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.077		0.050	0.026	mg/L			03/17/14 16:58	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 07:47	1
Field pH	5.47				SU			03/05/14 07:47	1
Field Temperature	20.7				Degrees C			03/05/14 07:47	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 07:47	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-47063-10

Date Collected: 03/05/14 07:48

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 07:47	1
Specific Conductance	49				umhos/cm			03/05/14 07:47	1
Turbidity	4.54				NTU			03/05/14 07:47	1
Water Level	123.13				ft			03/05/14 07:47	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-47063-11

Date Collected: 03/05/14 07:15

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 20:02	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 20:02	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 20:02	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:02	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 20:02	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 20:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 20:02	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 20:02	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:02	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:02	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 20:02	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:02	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:02	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 20:02	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 20:02	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 20:02	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 20:02	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 20:02	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:02	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 20:02	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 20:02	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 20:02	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 20:02	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 20:02	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 20:02	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 20:02	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 20:02	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:02	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 20:02	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:02	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 20:02	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 20:02	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 20:02	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 20:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 20:02	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 20:02	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 20:02	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:02	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 20:02	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 20:02	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 20:02	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 20:02	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-47063-11

Date Collected: 03/05/14 07:15

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/11/14 20:02	1
Dibromofluoromethane	109		70 - 130		03/11/14 20:02	1
Toluene-d8 (Surr)	96		70 - 130		03/11/14 20:02	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.022	0.0054	ug/L		03/10/14 15:30	03/11/14 01:36	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/10/14 15:30	03/11/14 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	124		60 - 144	03/10/14 15:30	03/11/14 01:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		0.50	0.25	mg/L			03/18/14 15:30	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		03/06/14 10:29	03/07/14 07:46	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:46	1
Barium	52		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:46	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:46	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:46	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:46	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:46	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:46	1
Iron	730		100	33	ug/L		03/06/14 10:29	03/07/14 07:46	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:46	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:46	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:46	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:46	1
Sodium	3.7		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:46	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:46	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:46	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:46	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		03/07/14 09:44	03/10/14 10:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	55		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.096		0.050	0.026	mg/L			03/17/14 17:07	1
Nitrate as N	0.023	I	0.050	0.010	mg/L			03/06/14 17:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 07:14	1
Field pH	5.94				SU			03/05/14 07:14	1
Field Temperature	20.3				Degrees C			03/05/14 07:14	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 07:14	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-47063-11

Date Collected: 03/05/14 07:15

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 07:14	1
Specific Conductance	83				umhos/cm			03/05/14 07:14	1
Turbidity	1.81				NTU			03/05/14 07:14	1
Water Level	123.0				ft			03/05/14 07:14	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-47063-12

Date Collected: 03/05/14 13:30

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 20:32	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 20:32	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 20:32	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:32	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 20:32	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 20:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 20:32	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 20:32	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:32	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 20:32	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 20:32	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:32	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:32	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 20:32	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 20:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 20:32	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 20:32	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 20:32	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 20:32	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 20:32	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 20:32	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 20:32	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 20:32	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 20:32	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 20:32	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 20:32	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 20:32	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 20:32	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 20:32	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 20:32	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 20:32	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 20:32	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 20:32	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 20:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 20:32	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 20:32	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 20:32	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 20:32	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 20:32	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 20:32	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 20:32	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 20:32	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-47063-12

Date Collected: 03/05/14 13:30

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		03/11/14 20:32	1
Dibromofluoromethane	108		70 - 130		03/11/14 20:32	1
Toluene-d8 (Surr)	95		70 - 130		03/11/14 20:32	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		03/10/14 15:30	03/11/14 01:44	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	125		60 - 144	03/10/14 15:30	03/11/14 01:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.4		0.50	0.25	mg/L			03/18/14 15:44	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		03/06/14 10:29	03/07/14 07:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 07:54	1
Barium	82		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 07:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 07:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 07:54	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 07:54	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 07:54	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 07:54	1
Iron	340		100	33	ug/L		03/06/14 10:29	03/07/14 07:54	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 07:54	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 07:54	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 07:54	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 07:54	1
Sodium	5.2		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 07:54	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 07:54	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 07:54	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 07:54	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		03/07/14 09:44	03/10/14 11:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.40		0.050	0.026	mg/L			03/17/14 17:08	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 13:29	1
Field pH	7.37				SU			03/05/14 13:29	1
Field Temperature	22.5				Degrees C			03/05/14 13:29	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 13:29	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-47063-12

Date Collected: 03/05/14 13:30

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 13:29	1
Specific Conductance	326				umhos/cm			03/05/14 13:29	1
Turbidity	1.92				NTU			03/05/14 13:29	1
Water Level	121.11				ft			03/05/14 13:29	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-47063-13

Date Collected: 03/05/14 14:02

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 21:02	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 21:02	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 21:02	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 21:02	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 21:02	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 21:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 21:02	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 21:02	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 21:02	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 21:02	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 21:02	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 21:02	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 21:02	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 21:02	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 21:02	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 21:02	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 21:02	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 21:02	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 21:02	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 21:02	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 21:02	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 21:02	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 21:02	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 21:02	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 21:02	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 21:02	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 21:02	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 21:02	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 21:02	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 21:02	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 21:02	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 21:02	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 21:02	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 21:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 21:02	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 21:02	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 21:02	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 21:02	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 21:02	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 21:02	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 21:02	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 21:02	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-47063-13

Date Collected: 03/05/14 14:02

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/11/14 21:02	1
Dibromofluoromethane	109		70 - 130		03/11/14 21:02	1
Toluene-d8 (Surr)	95		70 - 130		03/11/14 21:02	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.022	0.0054	ug/L		03/10/14 15:30	03/11/14 01:53	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/10/14 15:30	03/11/14 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	121		60 - 144	03/10/14 15:30	03/11/14 01:53	1

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			03/13/14 23:08	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		03/06/14 10:29	03/07/14 08:01	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 08:01	1
Barium	48		5.0	1.3	ug/L		03/06/14 10:29	03/07/14 08:01	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 08:01	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 08:01	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 08:01	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 08:01	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 08:01	1
Iron	410		100	33	ug/L		03/06/14 10:29	03/07/14 08:01	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 08:01	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 08:01	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 08:01	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 08:01	1
Sodium	3.4		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 08:01	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 08:01	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 08:01	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 08:01	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		03/07/14 09:44	03/10/14 11:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.073		0.050	0.026	mg/L			03/17/14 17:08	1
Nitrate as N	1.1		0.050	0.010	mg/L			03/06/14 17:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/05/14 14:01	1
Field pH	5.17				SU			03/05/14 14:01	1
Field Temperature	23.1				Degrees C			03/05/14 14:01	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 14:01	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-47063-13

Date Collected: 03/05/14 14:02

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 14:01	1
Specific Conductance	38				umhos/cm			03/05/14 14:01	1
Turbidity	1.68				NTU			03/05/14 14:01	1
Water Level	118.67				ft			03/05/14 14:01	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-47063-14

Date Collected: 03/05/14 14:34

Matrix: Water

Date Received: 03/06/14 08:20

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			03/12/14 11:35	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 11:35	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 11:35	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 11:35	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 11:35	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 11:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 11:35	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 11:35	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 11:35	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 11:35	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 11:35	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 11:35	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 11:35	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 11:35	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 11:35	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 11:35	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 11:35	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 11:35	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 11:35	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 11:35	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 11:35	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 11:35	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 11:35	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 11:35	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 11:35	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 11:35	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 11:35	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 11:35	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 11:35	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 11:35	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 11:35	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 11:35	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 11:35	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 11:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 11:35	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 11:35	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 11:35	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:35	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 11:35	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 11:35	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 11:35	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 11:35	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-47063-14

Date Collected: 03/05/14 14:34

Matrix: Water

Date Received: 03/06/14 08:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		70 - 130		03/12/14 11:35	1
Dibromofluoromethane	121		70 - 130		03/12/14 11:35	1
Toluene-d8 (Surr)	93		70 - 130		03/12/14 11:35	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/10/14 15:30	03/11/14 02:02	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/10/14 15:30	03/11/14 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	121		60 - 144	03/10/14 15:30	03/11/14 02:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		0.50	0.25	mg/L			03/14/14 02:01	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		03/06/14 10:29	03/07/14 08:08	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 08:08	1
Barium	4.3	I	5.0	1.3	ug/L		03/06/14 10:29	03/07/14 08:08	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 08:08	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 08:08	1
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 08:08	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 08:08	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 08:08	1
Iron	87	I	100	33	ug/L		03/06/14 10:29	03/07/14 08:08	1
Lead	0.27	I	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 08:08	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 08:08	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 08:08	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 08:08	1
Sodium	12		0.50	0.25	mg/L		03/06/14 10:29	03/07/14 08:08	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 08:08	1
Vanadium	4.8	I	10	3.8	ug/L		03/06/14 10:29	03/07/14 08:08	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 08:08	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		03/10/14 15:36	03/11/14 15:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			03/12/14 14:27	1
Ammonia (as N)	0.25		0.050	0.026	mg/L			03/17/14 17:08	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			03/05/14 14:33	1
Field pH	5.3				SU			03/05/14 14:33	1
Field Temperature	21.0				Degrees C			03/05/14 14:33	1
Oxygen, Dissolved	0.0				mg/L			03/05/14 14:33	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-47063-14

Date Collected: 03/05/14 14:34

Matrix: Water

Date Received: 03/06/14 08:20

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/05/14 14:33	1
Specific Conductance	160				umhos/cm			03/05/14 14:33	1
Turbidity	8.4				NTU			03/05/14 14:33	1
Water Level	115.98				ft			03/05/14 14:33	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 02 47063

Lab Sample ID: 640-47063-15

Date Collected: 03/05/14 00:00

Matrix: Water

Date Received: 03/06/14 08:20

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			03/11/14 18:31	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 18:31	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 18:31	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:31	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 18:31	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 18:31	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 18:31	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 18:31	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:31	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 18:31	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 18:31	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:31	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:31	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 18:31	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 18:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 18:31	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 18:31	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 18:31	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 18:31	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 18:31	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 18:31	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 18:31	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 18:31	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 18:31	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 18:31	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 18:31	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 18:31	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 18:31	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 18:31	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 18:31	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 18:31	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 18:31	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 18:31	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 18:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 18:31	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 18:31	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 18:31	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 18:31	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 18:31	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 18:31	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 18:31	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 18:31	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 02 47063

Lab Sample ID: 640-47063-15

Date Collected: 03/05/14 00:00

Matrix: Water

Date Received: 03/06/14 08:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	88		70 - 130		03/11/14 18:31	1
Dibromofluoromethane	107		70 - 130		03/11/14 18:31	1
Toluene-d8 (Surr)	96		70 - 130		03/11/14 18:31	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-1

Date Collected: 03/06/14 11:15

Date Received: 03/07/14 08:15

Lab Sample ID: 640-47084-1

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.8	I	25	5.0	ug/L			03/12/14 15:30	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 15:30	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 15:30	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 15:30	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 15:30	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 15:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 15:30	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 15:30	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 15:30	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 15:30	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 15:30	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 15:30	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 15:30	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 15:30	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 15:30	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 15:30	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 15:30	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 15:30	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 15:30	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 15:30	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 15:30	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 15:30	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 15:30	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 15:30	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 15:30	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 15:30	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 15:30	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 15:30	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 15:30	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 15:30	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 15:30	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 15:30	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 15:30	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 15:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 15:30	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 15:30	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 15:30	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:30	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 15:30	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 15:30	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 15:30	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 15:30	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-1

Lab Sample ID: 640-47084-1

Date Collected: 03/06/14 11:15

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		03/12/14 15:30	1
Dibromofluoromethane	105		70 - 130		03/12/14 15:30	1
Toluene-d8 (Surr)	91		70 - 130		03/12/14 15:30	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		03/11/14 16:00	03/11/14 19:42	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	119		60 - 144	03/11/14 16:00	03/11/14 19:42	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0014	I	0.0025	0.0010	ug/L		03/11/14 12:15	03/13/14 14:48	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		03/10/14 09:05	03/10/14 19:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 19:54	1
Barium	47		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 19:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 19:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 19:54	1
Chromium	3.1	I	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 19:54	1
Cobalt	0.49	I	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 19:54	1
Copper	1.8	I	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 19:54	1
Iron	1600		100	33	ug/L		03/10/14 09:05	03/10/14 19:54	1
Lead	2.6		1.5	0.20	ug/L		03/10/14 09:05	03/10/14 19:54	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 19:54	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 19:54	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 19:54	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 19:54	1
Vanadium	4.9	I	10	3.8	ug/L		03/10/14 09:05	03/10/14 19:54	1
Zinc	18	I	20	8.3	ug/L		03/10/14 09:05	03/10/14 19:54	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Barium	43		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Cobalt	0.83		0.50	0.15	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Copper	3.4	I	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Iron	1400		100	33	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Lead	2.0		1.5	0.20	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Vanadium	4.2	I	10	3.8	ug/L		03/10/14 09:05	03/10/14 20:01	1
Dissolved Zinc	27		20	8.3	ug/L		03/10/14 09:05	03/10/14 20:01	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	22		3.3	3.3	mg/L			03/10/14 19:54	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-1

Lab Sample ID: 640-47084-1

Date Collected: 03/06/14 11:15

Matrix: Water

Date Received: 03/07/14 08:15

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.5		5.0	5.0	mg/L			03/07/14 12:17	1
Total Dissolved Solids	170		5.0	5.0	mg/L			03/13/14 10:46	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:45	1
Phosphorus	0.041	U	0.10	0.041	mg/L		03/12/14 16:00	03/13/14 13:18	1
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/07/14 12:03	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/07/14 12:06	1
Total Organic Carbon	46		1.0	0.50	mg/L			03/17/14 14:52	1
Chemical Oxygen Demand	87		20	10	mg/L			03/13/14 14:53	2
Nitrogen, Total	1.3		0.25	0.25	mg/L			03/14/14 14:12	1
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			03/20/14 21:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			03/06/14 11:15	1
Field pH	4.48				SU			03/06/14 11:15	1
Field Temperature	13.3				Degrees C			03/06/14 11:15	1
Oxygen, Dissolved	5.2				mg/L			03/06/14 11:15	1
Sheen	None				NONE			03/06/14 11:15	1
Specific Conductance	101				umhos/cm			03/06/14 11:15	1
Turbidity	4.31				NTU			03/06/14 11:15	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-2

Lab Sample ID: 640-47084-2

Date Collected: 03/06/14 10:15

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.0	I	25	5.0	ug/L			03/12/14 15:59	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 15:59	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 15:59	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 15:59	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 15:59	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 15:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 15:59	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 15:59	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 15:59	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 15:59	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 15:59	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 15:59	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 15:59	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 15:59	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 15:59	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 15:59	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 15:59	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 15:59	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 15:59	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 15:59	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 15:59	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 15:59	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 15:59	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 15:59	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 15:59	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 15:59	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 15:59	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 15:59	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 15:59	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 15:59	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 15:59	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 15:59	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 15:59	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 15:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 15:59	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 15:59	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 15:59	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 15:59	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 15:59	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 15:59	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 15:59	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 15:59	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-2

Lab Sample ID: 640-47084-2

Date Collected: 03/06/14 10:15

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/12/14 15:59	1
Dibromofluoromethane	105		70 - 130		03/12/14 15:59	1
Toluene-d8 (Surr)	92		70 - 130		03/12/14 15:59	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0051	U	0.020	0.0051	ug/L		03/11/14 16:00	03/11/14 19:51	1
EDB	0.0023	U	0.020	0.0023	ug/L		03/11/14 16:00	03/11/14 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	119		60 - 144	03/11/14 16:00	03/11/14 19:51	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		03/11/14 12:15	03/13/14 14:56	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		03/10/14 09:05	03/10/14 20:07	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 20:07	1
Barium	110		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 20:07	1
Beryllium	0.54		0.50	0.25	ug/L		03/10/14 09:05	03/10/14 20:07	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 20:07	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 20:07	1
Cobalt	0.19	I	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 20:07	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 20:07	1
Iron	650		100	33	ug/L		03/10/14 09:05	03/10/14 20:07	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 20:07	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 20:07	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 20:07	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 20:07	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 20:07	1
Vanadium	5.1	I	10	3.8	ug/L		03/10/14 09:05	03/10/14 20:07	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 20:07	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Barium	97		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 20:28	1
Dissolved Beryllium	0.48	I	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 20:28	1
Dissolved Cobalt	0.29	I	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 20:28	1
Dissolved Iron	540		100	33	ug/L		03/10/14 09:05	03/10/14 20:28	1
Dissolved Vanadium	4.4	I	10	3.8	ug/L		03/10/14 09:05	03/10/14 20:28	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	13		3.3	3.3	mg/L			03/10/14 20:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0		5.0	5.0	mg/L			03/07/14 12:17	1
Total Dissolved Solids	22		5.0	5.0	mg/L			03/13/14 10:46	1
Nitrate as N	0.094		0.050	0.010	mg/L			03/07/14 14:46	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-2

Lab Sample ID: 640-47084-2

Date Collected: 03/06/14 10:15

Matrix: Water

Date Received: 03/07/14 08:15

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/11/14 15:30	03/13/14 11:54	1
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/07/14 12:03	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/07/14 12:06	1
Total Organic Carbon	15		1.0	0.50	mg/L			03/17/14 15:34	1
Chemical Oxygen Demand	27		10	5.0	mg/L			03/13/14 14:53	1
Nitrogen, Total	0.60		0.25	0.25	mg/L			03/14/14 14:12	1
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			03/20/14 21:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			03/06/14 10:15	1
Field pH	4.26				SU			03/06/14 10:15	1
Field Temperature	15.6				Degrees C			03/06/14 10:15	1
Oxygen, Dissolved	6.1				mg/L			03/06/14 10:15	1
Sheen	None				NONE			03/06/14 10:15	1
Specific Conductance	67				umhos/cm			03/06/14 10:15	1
Turbidity	3.19				NTU			03/06/14 10:15	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Date Collected: 03/06/14 10:45

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.3	I	25	5.0	ug/L			03/12/14 16:28	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 16:28	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 16:28	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 16:28	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 16:28	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 16:28	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 16:28	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 16:28	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 16:28	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 16:28	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 16:28	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 16:28	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 16:28	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 16:28	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 16:28	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 16:28	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 16:28	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 16:28	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 16:28	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 16:28	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 16:28	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 16:28	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 16:28	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 16:28	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 16:28	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 16:28	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 16:28	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 16:28	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 16:28	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 16:28	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 16:28	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 16:28	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 16:28	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 16:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 16:28	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 16:28	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 16:28	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:28	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 16:28	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 16:28	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 16:28	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 16:28	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Date Collected: 03/06/14 10:45

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/12/14 16:28	1
Dibromofluoromethane	105		70 - 130		03/12/14 16:28	1
Toluene-d8 (Surr)	93		70 - 130		03/12/14 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		03/11/14 16:00	03/11/14 19:59	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	126		60 - 144	03/11/14 16:00	03/11/14 19:59	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0087		0.0025	0.0010	ug/L		03/11/14 12:15	03/13/14 15:04	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		03/10/14 09:05	03/10/14 20:35	1
Arsenic	1.7	I	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 20:35	1
Barium	50		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 20:35	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 20:35	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 20:35	1
Chromium	5.9		5.0	2.5	ug/L		03/10/14 09:05	03/10/14 20:35	1
Cobalt	0.48	I	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 20:35	1
Copper	4.9	I	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 20:35	1
Iron	1100		100	33	ug/L		03/10/14 09:05	03/10/14 20:35	1
Lead	10		1.5	0.20	ug/L		03/10/14 09:05	03/10/14 20:35	1
Nickel	3.4	I	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 20:35	1
Selenium	1.4	I	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 20:35	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 20:35	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 20:35	1
Vanadium	11		10	3.8	ug/L		03/10/14 09:05	03/10/14 20:35	1
Zinc	17	I	20	8.3	ug/L		03/10/14 09:05	03/10/14 20:35	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Arsenic	1.4	I	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Barium	40		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Cobalt	0.25	I	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Copper	4.3	I	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Iron	61	I	100	33	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Lead	0.49	I	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Nickel	4.1	I	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Selenium	1.0	I	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Vanadium	4.6	I	10	3.8	ug/L		03/10/14 09:05	03/10/14 20:41	1
Dissolved Zinc	13	I	20	8.3	ug/L		03/10/14 09:05	03/10/14 20:41	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Date Collected: 03/06/14 10:45

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	160		3.3	3.3	mg/L			03/10/14 20:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	24		5.0	5.0	mg/L			03/07/14 12:17	1
Total Dissolved Solids	260		10	10	mg/L			03/13/14 10:46	1
Nitrate as N	0.33		0.050	0.010	mg/L			03/07/14 14:47	1
Phosphorus	0.070	I	0.10	0.041	mg/L		03/11/14 15:30	03/13/14 11:51	1
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/07/14 12:03	1
Biochemical Oxygen Demand	2.8		2.0	2.0	mg/L			03/07/14 12:06	1
Total Organic Carbon	16		1.0	0.50	mg/L			03/17/14 15:53	1
Chemical Oxygen Demand	30		10	5.0	mg/L			03/13/14 14:53	1
Nitrogen, Total	2.6		0.25	0.25	mg/L			03/14/14 14:12	1
Unionized Ammonia	0.0037		0.00028	0.00028	mg/L			03/20/14 21:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown				PCU			03/06/14 10:45	1
Field pH	7.2				SU			03/06/14 10:45	1
Field Temperature	15.1				Degrees C			03/06/14 10:45	1
Oxygen, Dissolved	5.1				mg/L			03/06/14 10:45	1
Sheen	None				NONE			03/06/14 10:45	1
Specific Conductance	362				umhos/cm			03/06/14 10:45	1
Turbidity	23.94				NTU			03/06/14 10:45	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 03 47084

Lab Sample ID: 640-47084-4

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.1	I	25	5.0	ug/L			03/12/14 14:59	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 14:59	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 14:59	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 14:59	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 14:59	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 14:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 14:59	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 14:59	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 14:59	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 14:59	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 14:59	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 14:59	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 14:59	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 14:59	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 14:59	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 14:59	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 14:59	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 14:59	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 14:59	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 14:59	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 14:59	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 14:59	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 14:59	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 14:59	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 14:59	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 14:59	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 14:59	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 14:59	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 14:59	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 14:59	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 14:59	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 14:59	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 14:59	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 14:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 14:59	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 14:59	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 14:59	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:59	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 14:59	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 14:59	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 14:59	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 14:59	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 03 47084

Lab Sample ID: 640-47084-4

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	89		70 - 130		03/12/14 14:59	1
Dibromofluoromethane	102		70 - 130		03/12/14 14:59	1
Toluene-d8 (Surr)	94		70 - 130		03/12/14 14:59	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Field Blank 01 47090

Lab Sample ID: 640-47090-4

Date Collected: 03/06/14 09:45

Matrix: Water

Date Received: 03/07/14 08:15

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			03/15/14 01:21	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		03/10/14 09:05	03/10/14 21:02	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 21:02	1
Barium	1.3	U	5.0	1.3	ug/L		03/10/14 09:05	03/10/14 21:02	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 21:02	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 21:02	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 21:02	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 21:02	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 21:02	1
Iron	33	U	100	33	ug/L		03/10/14 09:05	03/10/14 21:02	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 21:02	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 21:02	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 21:02	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 21:02	1
Sodium	0.25	U	0.50	0.25	mg/L		03/10/14 09:05	03/10/14 21:02	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 21:02	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:05	03/10/14 21:02	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 21:02	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		03/10/14 13:16	03/10/14 18:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.077		0.050	0.026	mg/L			03/19/14 10:46	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/06/14 09:45	1
Field pH	6.88				SU			03/06/14 09:45	1
Field Temperature	20.1				Degrees C			03/06/14 09:45	1
Oxygen, Dissolved	0.8				mg/L			03/06/14 09:45	1
Sheen	None				NONE			03/06/14 09:45	1
Specific Conductance	2.0				umhos/cm			03/06/14 09:45	1
Turbidity	0.00				NTU			03/06/14 09:45	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Field Blank 02 47090

Lab Sample ID: 640-47090-5

Date Collected: 03/06/14 11:35

Matrix: Water

Date Received: 03/07/14 08:15

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			03/15/14 01:36	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		03/10/14 09:05	03/10/14 21:09	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 21:09	1
Barium	1.3	U	5.0	1.3	ug/L		03/10/14 09:05	03/10/14 21:09	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 21:09	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 21:09	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 21:09	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 21:09	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 21:09	1
Iron	33	U	100	33	ug/L		03/10/14 09:05	03/10/14 21:09	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 21:09	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 21:09	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 21:09	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 21:09	1
Sodium	0.25	U	0.50	0.25	mg/L		03/10/14 09:05	03/10/14 21:09	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 21:09	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:05	03/10/14 21:09	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 21:09	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		03/10/14 13:16	03/10/14 18:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.067		0.050	0.026	mg/L			03/19/14 10:46	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/06/14 11:35	1
Field pH	6.82				SU			03/06/14 11:35	1
Field Temperature	20.2				Degrees C			03/06/14 11:35	1
Oxygen, Dissolved	0.9				mg/L			03/06/14 11:35	1
Sheen	None				NONE			03/06/14 11:35	1
Specific Conductance	2.0				umhos/cm			03/06/14 11:35	1
Turbidity	0.0				NTU			03/06/14 11:35	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-47090-6

Date Collected: 03/06/14 09:33

Matrix: Water

Date Received: 03/07/14 08:15

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			03/12/14 16:58	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 16:58	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 16:58	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 16:58	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 16:58	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 16:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 16:58	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 16:58	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 16:58	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 16:58	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 16:58	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 16:58	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 16:58	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 16:58	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 16:58	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 16:58	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 16:58	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 16:58	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 16:58	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 16:58	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 16:58	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 16:58	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 16:58	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 16:58	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 16:58	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 16:58	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 16:58	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 16:58	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 16:58	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 16:58	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 16:58	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 16:58	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 16:58	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 16:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 16:58	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 16:58	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 16:58	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 16:58	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 16:58	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 16:58	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 16:58	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 16:58	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-47090-6

Date Collected: 03/06/14 09:33

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		03/12/14 16:58	1
Dibromofluoromethane	104		70 - 130		03/12/14 16:58	1
Toluene-d8 (Surr)	93		70 - 130		03/12/14 16:58	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/11/14 16:00	03/11/14 20:08	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	120		60 - 144	03/11/14 16:00	03/11/14 20:08	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.50	mg/L			03/15/14 01:50	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		03/10/14 09:05	03/10/14 21:16	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 21:16	1
Barium	5.2		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 21:16	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 21:16	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 21:16	1
Chromium	4.4	I	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 21:16	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 21:16	1
Copper	1.1	I	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 21:16	1
Iron	120		100	33	ug/L		03/10/14 09:05	03/10/14 21:16	1
Lead	0.57	I	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 21:16	1
Nickel	2.1	I	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 21:16	1
Selenium	9.3		2.5	1.0	ug/L		03/10/14 09:05	03/10/14 21:16	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 21:16	1
Sodium	5.8		0.50	0.25	mg/L		03/10/14 09:05	03/10/14 21:16	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 21:16	1
Vanadium	41		10	3.8	ug/L		03/10/14 09:05	03/10/14 21:16	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 21:16	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		03/10/14 13:16	03/10/14 18:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.38		0.050	0.026	mg/L			03/18/14 18:17	1
Nitrate as N	0.29		0.050	0.010	mg/L			03/07/14 14:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Brown				PCU			03/06/14 09:32	1
Field pH	5.74				SU			03/06/14 09:32	1
Field Temperature	20.8				Degrees C			03/06/14 09:32	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-47090-6

Date Collected: 03/06/14 09:33

Matrix: Water

Date Received: 03/07/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.4				mg/L			03/06/14 09:32	1
Sheen	None				NONE			03/06/14 09:32	1
Specific Conductance	242				umhos/cm			03/06/14 09:32	1
Turbidity	6.68				NTU			03/06/14 09:32	1
Water Level	115.01				ft			03/06/14 09:32	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-47090-7

Date Collected: 03/06/14 08:52

Matrix: Water

Date Received: 03/07/14 08:15

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			03/12/14 17:27	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 17:27	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 17:27	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 17:27	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 17:27	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 17:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 17:27	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 17:27	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 17:27	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 17:27	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 17:27	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 17:27	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 17:27	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 17:27	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 17:27	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 17:27	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 17:27	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 17:27	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 17:27	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 17:27	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 17:27	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 17:27	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 17:27	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 17:27	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 17:27	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 17:27	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 17:27	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 17:27	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 17:27	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 17:27	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 17:27	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 17:27	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 17:27	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 17:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 17:27	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 17:27	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 17:27	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:27	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 17:27	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 17:27	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 17:27	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 17:27	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-47090-7

Date Collected: 03/06/14 08:52

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/12/14 17:27	1
Dibromofluoromethane	103		70 - 130		03/12/14 17:27	1
Toluene-d8 (Surr)	93		70 - 130		03/12/14 17:27	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		03/11/14 16:00	03/11/14 20:17	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	131		60 - 144	03/11/14 16:00	03/11/14 20:17	1

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			03/15/14 02:05	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		03/10/14 09:05	03/10/14 21:22	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 21:22	1
Barium	57		5.0	1.3	ug/L		03/10/14 09:05	03/10/14 21:22	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 21:22	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 21:22	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 21:22	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 21:22	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 21:22	1
Iron	330		100	33	ug/L		03/10/14 09:05	03/10/14 21:22	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 21:22	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 21:22	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 21:22	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 21:22	1
Sodium	3.8		0.50	0.25	mg/L		03/10/14 09:05	03/10/14 21:22	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 21:22	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:05	03/10/14 21:22	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 21:22	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		03/10/14 13:16	03/10/14 19:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	35		5.0	5.0	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.075		0.050	0.026	mg/L			03/18/14 18:26	1
Nitrate as N	0.016	I	0.050	0.010	mg/L			03/07/14 14:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/06/14 08:51	1
Field pH	5.26				SU			03/06/14 08:51	1
Field Temperature	25.2				Degrees C			03/06/14 08:51	1
Oxygen, Dissolved	0.1				mg/L			03/06/14 08:51	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-47090-7

Date Collected: 03/06/14 08:52

Matrix: Water

Date Received: 03/07/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/06/14 08:51	1
Specific Conductance	37				umhos/cm			03/06/14 08:51	1
Turbidity	2.11				NTU			03/06/14 08:51	1
Water Level	117.92				ft			03/06/14 08:51	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-47090-8

Date Collected: 03/06/14 08:21

Matrix: Water

Date Received: 03/07/14 08:15

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			03/12/14 17:56	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 17:56	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 17:56	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 17:56	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 17:56	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 17:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 17:56	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 17:56	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 17:56	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 17:56	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 17:56	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 17:56	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 17:56	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 17:56	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 17:56	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 17:56	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 17:56	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 17:56	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 17:56	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 17:56	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 17:56	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 17:56	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 17:56	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 17:56	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 17:56	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 17:56	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 17:56	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 17:56	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 17:56	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 17:56	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 17:56	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 17:56	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 17:56	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 17:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 17:56	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 17:56	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 17:56	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 17:56	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 17:56	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 17:56	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 17:56	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 17:56	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-47090-8

Date Collected: 03/06/14 08:21

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/12/14 17:56	1
Dibromofluoromethane	102		70 - 130		03/12/14 17:56	1
Toluene-d8 (Surr)	92		70 - 130		03/12/14 17:56	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0054	U	0.022	0.0054	ug/L		03/11/14 16:00	03/11/14 20:25	1
EDB	0.0024	U	0.022	0.0024	ug/L		03/11/14 16:00	03/11/14 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	131		60 - 144	03/11/14 16:00	03/11/14 20:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		0.50	0.25	mg/L			03/15/14 02:48	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		03/10/14 09:32	03/11/14 18:58	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:32	03/11/14 18:58	1
Barium	130		5.0	1.3	ug/L		03/10/14 09:32	03/11/14 18:58	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:32	03/11/14 18:58	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:32	03/11/14 18:58	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:32	03/11/14 18:58	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:32	03/11/14 18:58	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:32	03/11/14 18:58	1
Iron	820		100	33	ug/L		03/10/14 09:32	03/11/14 18:58	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:32	03/11/14 18:58	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:32	03/11/14 18:58	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:32	03/11/14 18:58	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:32	03/11/14 18:58	1
Sodium	5.8		0.50	0.25	mg/L		03/10/14 09:32	03/11/14 18:58	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:32	03/11/14 18:58	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:32	03/11/14 18:58	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:32	03/11/14 18:58	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		03/10/14 13:16	03/10/14 19:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.28		0.050	0.026	mg/L			03/18/14 18:26	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/06/14 08:20	1
Field pH	7.14				SU			03/06/14 08:20	1
Field Temperature	23.7				Degrees C			03/06/14 08:20	1
Oxygen, Dissolved	0.0				mg/L			03/06/14 08:20	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-47090-8

Date Collected: 03/06/14 08:21

Matrix: Water

Date Received: 03/07/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/06/14 08:20	1
Specific Conductance	364				umhos/cm			03/06/14 08:20	1
Turbidity	3.97				NTU			03/06/14 08:20	1
Water Level	120.28				ft			03/06/14 08:20	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-47090-9

Date Collected: 03/06/14 07:44

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.5	I	25	5.0	ug/L			03/12/14 18:25	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 18:25	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 18:25	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 18:25	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 18:25	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 18:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 18:25	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 18:25	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 18:25	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 18:25	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 18:25	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 18:25	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 18:25	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 18:25	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 18:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 18:25	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 18:25	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 18:25	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 18:25	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 18:25	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 18:25	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 18:25	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 18:25	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 18:25	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 18:25	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 18:25	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 18:25	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 18:25	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 18:25	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 18:25	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 18:25	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 18:25	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 18:25	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 18:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 18:25	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 18:25	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 18:25	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:25	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 18:25	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 18:25	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 18:25	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 18:25	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-47090-9

Date Collected: 03/06/14 07:44

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/12/14 18:25	1
Dibromofluoromethane	105		70 - 130		03/12/14 18:25	1
Toluene-d8 (Surr)	92		70 - 130		03/12/14 18:25	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0053	U	0.021	0.0053	ug/L		03/11/14 16:00	03/11/14 20:34	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	131		60 - 144	03/11/14 16:00	03/11/14 20:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		0.50	0.25	mg/L			03/15/14 03:02	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		03/10/14 09:32	03/11/14 19:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:32	03/11/14 19:20	1
Barium	92		5.0	1.3	ug/L		03/10/14 09:32	03/11/14 19:20	1
Beryllium	0.26	I	0.50	0.25	ug/L		03/10/14 09:32	03/11/14 19:20	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:32	03/11/14 19:20	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:32	03/11/14 19:20	1
Cobalt	0.61		0.50	0.15	ug/L		03/10/14 09:32	03/11/14 19:20	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:32	03/11/14 19:20	1
Iron	630		100	33	ug/L		03/10/14 09:32	03/11/14 19:20	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:32	03/11/14 19:20	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:32	03/11/14 19:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:32	03/11/14 19:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:32	03/11/14 19:20	1
Sodium	15		0.50	0.25	mg/L		03/10/14 09:32	03/11/14 19:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:32	03/11/14 19:20	1
Vanadium	3.8	I	10	3.8	ug/L		03/10/14 09:32	03/11/14 19:20	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:32	03/11/14 19:20	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		03/10/14 13:16	03/10/14 19:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.15		0.050	0.026	mg/L			03/18/14 18:26	1
Nitrate as N	0.077		0.050	0.010	mg/L			03/07/14 14:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			03/06/14 07:43	1
Field pH	3.98				SU			03/06/14 07:43	1
Field Temperature	20.8				Degrees C			03/06/14 07:43	1
Oxygen, Dissolved	0.0				mg/L			03/06/14 07:43	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-47090-9

Date Collected: 03/06/14 07:44

Matrix: Water

Date Received: 03/07/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/06/14 07:43	1
Specific Conductance	191				umhos/cm			03/06/14 07:43	1
Turbidity	2.96				NTU			03/06/14 07:43	1
Water Level	109.63				ft			03/06/14 07:43	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Date Collected: 03/06/14 07:13

Matrix: Water

Date Received: 03/07/14 08:15

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			03/12/14 18:54	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 18:54	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 18:54	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 18:54	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 18:54	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 18:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 18:54	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 18:54	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 18:54	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 18:54	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 18:54	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 18:54	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 18:54	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 18:54	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 18:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 18:54	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 18:54	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 18:54	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 18:54	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 18:54	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 18:54	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 18:54	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 18:54	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 18:54	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 18:54	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 18:54	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 18:54	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 18:54	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 18:54	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 18:54	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 18:54	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 18:54	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 18:54	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 18:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 18:54	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 18:54	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 18:54	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 18:54	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 18:54	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 18:54	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 18:54	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 18:54	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Date Collected: 03/06/14 07:13

Matrix: Water

Date Received: 03/07/14 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130		03/12/14 18:54	1
Dibromofluoromethane	108		70 - 130		03/12/14 18:54	1
Toluene-d8 (Surr)	93		70 - 130		03/12/14 18:54	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0052	U	0.021	0.0052	ug/L		03/11/14 16:00	03/11/14 20:42	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/11/14 16:00	03/11/14 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	129		60 - 144	03/11/14 16:00	03/11/14 20:42	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		0.50	0.25	mg/L			03/18/14 16:27	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		03/10/14 09:32	03/11/14 19:27	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:32	03/11/14 19:27	1
Barium	53		5.0	1.3	ug/L		03/10/14 09:32	03/11/14 19:27	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:32	03/11/14 19:27	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:32	03/11/14 19:27	1
Chromium	6.9		5.0	2.5	ug/L		03/10/14 09:32	03/11/14 19:27	1
Cobalt	0.16	I	0.50	0.15	ug/L		03/10/14 09:32	03/11/14 19:27	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:32	03/11/14 19:27	1
Iron	600		100	33	ug/L		03/10/14 09:32	03/11/14 19:27	1
Lead	1.6		1.5	0.20	ug/L		03/10/14 09:32	03/11/14 19:27	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:32	03/11/14 19:27	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:32	03/11/14 19:27	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:32	03/11/14 19:27	1
Sodium	3.4		0.50	0.25	mg/L		03/10/14 09:32	03/11/14 19:27	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:32	03/11/14 19:27	1
Vanadium	11		10	3.8	ug/L		03/10/14 09:32	03/11/14 19:27	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:32	03/11/14 19:27	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		03/10/14 13:16	03/10/14 19:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	31		5.0	5.0	mg/L			03/13/14 09:23	1
Ammonia (as N)	0.13		0.050	0.026	mg/L			03/18/14 18:26	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			03/06/14 07:12	1
Field pH	4.76				SU			03/06/14 07:12	1
Field Temperature	24.6				Degrees C			03/06/14 07:12	1
Oxygen, Dissolved	0.0				mg/L			03/06/14 07:12	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Date Collected: 03/06/14 07:13

Matrix: Water

Date Received: 03/07/14 08:15

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sheen	None				NONE			03/06/14 07:12	1
Specific Conductance	36				umhos/cm			03/06/14 07:12	1
Turbidity	9.95				NTU			03/06/14 07:12	1
Water Level	109.99				ft			03/06/14 07:12	1

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 04 47090

Lab Sample ID: 640-47090-11

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.8	I	25	5.0	ug/L			03/12/14 14:30	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 14:30	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 14:30	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 14:30	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 14:30	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 14:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 14:30	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 14:30	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 14:30	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 14:30	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 14:30	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 14:30	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 14:30	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 14:30	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 14:30	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 14:30	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 14:30	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 14:30	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 14:30	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 14:30	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 14:30	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 14:30	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 14:30	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 14:30	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 14:30	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 14:30	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 14:30	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 14:30	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 14:30	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 14:30	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 14:30	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 14:30	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 14:30	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 14:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 14:30	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 14:30	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 14:30	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 14:30	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 14:30	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 14:30	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 14:30	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 14:30	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Trip Blank 04 47090

Lab Sample ID: 640-47090-11

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	92		70 - 130		03/12/14 14:30	1
Dibromofluoromethane	102		70 - 130		03/12/14 14:30	1
Toluene-d8 (Surr)	91		70 - 130		03/12/14 14:30	1

Surrogate Summary

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

TestAmerica Job ID: 640-47048-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
640-47048-1	MWB-32(S)d	89	109	95
640-47048-2	MWB-32(I)d	87	108	96
640-47048-3	MWB-32(D)d	89	108	96
640-47048-4	MWB-33(S)d	89	108	97
640-47048-5	MWB-29(S)c	90	107	97
640-47048-6	MWB-29(I)c	88	107	95
640-47048-7	MWB-29(D)c	90	109	97
640-47048-8	MWB-13(S)c	90	108	96
640-47048-9	MWB-13(I)c	88	107	96
640-47048-10	MWB-22(S)c	90	107	96
640-47048-11	MWB-21(S)c	88	108	95
640-47048-12	MWB-17(S)c	88	108	96
640-47048-13	MWB-17(I)c	88	107	97
640-47048-14	MWB-17(D)c	89	107	95
640-47048-15	MWB-19(S)c	87	106	97
640-47048-16	MWB-19(I)c	90	108	97
640-47048-17	MWB-19(D)c	88	107	96
640-47048-18	MWB-20(S)c	88	108	97
640-47048-19	Trip Blank 01 47048	89	107	96
640-47063-1	MWB-3(I)b	92	106	93
640-47063-2	MWB-3(S)b	94	108	91
640-47063-3	MWB-31(D)b	94	105	87
640-47063-4	MWB-2(S)b	89	105	90
640-47063-5	MWB-2(I)b	95	105	92
640-47063-6	MWB-34(S)d	92	106	92
640-47063-7	MWB-34(I)d	93	105	96
640-47063-8	MWB-34(D)d	90	103	93
640-47063-9	MWB-27(S)c	89	105	95
640-47063-10	MWB-27(I)c	88	106	94
640-47063-11	MWB-27(D)c	90	109	96
640-47063-12	MWB-7(D)c	91	108	95
640-47063-13	MWB-7(1)c	90	109	95
640-47063-14	MWB-7(S)c	101	121	93
640-47063-15	Trip Blank 02 47063	88	107	96
640-47084-1	SW-1	91	105	91
640-47084-2	SW-2	90	105	92
640-47084-3	SW-3	90	105	93
640-47084-4	Trip Blank 03 47084	89	102	94
640-47090-6	MWB-12(S)c	90	104	93
640-47090-7	MWB-12(1)c	89	103	93
640-47090-8	MWB-12(D)c	89	102	92
640-47090-9	MWB-11(S)c	89	105	92
640-47090-10	MWB-11(1)(R)c	87	108	93
640-47090-11	Trip Blank 04 47090	92	102	91
LCS 680-318821/4	Lab Control Sample	92	109	102
LCS 680-319036/5	Lab Control Sample	101	107	102
LCS 680-319041/4	Lab Control Sample	98	103	104
LCS 680-319225/4	Lab Control Sample	96	96	97
LCS 680-319228/4	Lab Control Sample	97	103	92

TestAmerica Tallahassee

Surrogate Summary

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

TestAmerica Job ID: 640-47048-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
LCSD 680-318821/5	Lab Control Sample Dup	91	106	101
LCSD 680-319036/7	Lab Control Sample Dup	89	98	95
LCSD 680-319041/5	Lab Control Sample Dup	95	102	102
LCSD 680-319225/5	Lab Control Sample Dup	97	103	103
LCSD 680-319228/5	Lab Control Sample Dup	102	109	93
MB 680-318821/9	Method Blank	89	110	95
MB 680-319036/10	Method Blank	86	107	91
MB 680-319041/8	Method Blank	89	109	95
MB 680-319225/9	Method Blank	91	101	94
MB 680-319228/8	Method Blank	100	119	90

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA2 (60-144)		
640-47048-1	MWB-32(S)d	125		
640-47048-1 MS	MWB-32(S)d	125		
640-47048-1 MSD	MWB-32(S)d	125		
640-47048-2	MWB-32(I)d	124		
640-47048-2 MS	MWB-32(I)d	127		
640-47048-3	MWB-32(D)d	123		
640-47048-4	MWB-33(S)d	127		
640-47048-5	MWB-29(S)c	143		
640-47048-6	MWB-29(I)c	125		
640-47048-7	MWB-29(D)c	128		
640-47048-8	MWB-13(S)c	125		
640-47048-9	MWB-13(I)c	126		
640-47048-10	MWB-22(S)c	123		
640-47048-11	MWB-21(S)c	121		
640-47048-12	MWB-17(S)c	123		
640-47048-13	MWB-17(I)c	127		
640-47048-14	MWB-17(D)c	133		
640-47048-15	MWB-19(S)c	127		
640-47048-16	MWB-19(I)c	125		
640-47048-17	MWB-19(D)c	120		
640-47048-18	MWB-20(S)c	126		
640-47063-1	MWB-3(I)b	121		
640-47063-1 MS	MWB-3(I)b	128		
640-47063-2	MWB-3(S)b	124		
640-47063-3	MWB-31(D)b	126		
640-47063-4	MWB-2(S)b	119		
640-47063-5	MWB-2(I)b	120		

TestAmerica Tallahassee

Surrogate Summary

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

TestAmerica Job ID: 640-47048-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	PCA2 (60-144)					
640-47063-6	MWB-34(S)d	123					
640-47063-7	MWB-34(I)d	129					
640-47063-8	MWB-34(D)d	143					
640-47063-9	MWB-27(S)c	126					
640-47063-10	MWB-27(I)c	145 J					
640-47063-11	MWB-27(D)c	124					
640-47063-12	MWB-7(D)c	125					
640-47063-13	MWB-7(1)c	121					
640-47063-14	MWB-7(S)c	121					
640-47084-1	SW-1	119					
640-47090-6	MWB-12(S)c	120					
640-47090-7	MWB-12(1)c	131					
640-47090-7 MS	MWB-12(1)c	133					
640-47090-7 MSD	MWB-12(1)c	133					
640-47090-8	MWB-12(D)c	131					
640-47090-8 MS	MWB-12(D)c	132					
640-47090-9	MWB-11(S)c	131					
640-47090-10	MWB-11(1)(R)c	129					
LCS 680-318951/11-A	Lab Control Sample	114					
LCS 680-319170/11-A	Lab Control Sample	113					
LCSD 680-318951/12-A	Lab Control Sample Dup	115					
MB 680-318951/10-A	Method Blank	116					

Surrogate Legend

PCA = Pentachloroethane

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)					
640-47084-2	SW-2	119					
640-47084-3	SW-3	126					
LCS 680-318954/4-A	Lab Control Sample	105					
LCSD 680-318954/5-A	Lab Control Sample Dup	108					
LCSD 680-319170/12-A	Lab Control Sample Dup	121					
MB 680-318954/3-A	Method Blank	104					
MB 680-319170/10-A	Method Blank	114					

Surrogate Legend

PCA = Pentachloroethane

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-318821/9

Matrix: Water

Analysis Batch: 318821

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			03/10/14 01:17	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/10/14 01:17	1
Benzene	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/10/14 01:17	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/10/14 01:17	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/10/14 01:17	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/10/14 01:17	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/10/14 01:17	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/10/14 01:17	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/10/14 01:17	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/10/14 01:17	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/10/14 01:17	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/10/14 01:17	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 01:17	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/10/14 01:17	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/10/14 01:17	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/10/14 01:17	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/10/14 01:17	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/10/14 01:17	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/10/14 01:17	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/10/14 01:17	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/10/14 01:17	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/10/14 01:17	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/10/14 01:17	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/10/14 01:17	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/10/14 01:17	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/10/14 01:17	1
Styrene	0.11	U	1.0	0.11	ug/L			03/10/14 01:17	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/10/14 01:17	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/10/14 01:17	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/10/14 01:17	1
Toluene	0.33	U	1.0	0.33	ug/L			03/10/14 01:17	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/10/14 01:17	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/10/14 01:17	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/10/14 01:17	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/10/14 01:17	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/10/14 01:17	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/10/14 01:17	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/10/14 01:17	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/10/14 01:17	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/10/14 01:17	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/10/14 01:17	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/10/14 01:17	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-318821/9

Matrix: Water

Analysis Batch: 318821

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/10/14 01:17	1
Dibromofluoromethane	110		70 - 130		03/10/14 01:17	1
Toluene-d8 (Surr)	95		70 - 130		03/10/14 01:17	1

Lab Sample ID: LCS 680-318821/4

Matrix: Water

Analysis Batch: 318821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	90.0		ug/L		90	39 - 162
Benzene	50.0	49.0		ug/L		98	74 - 123
Bromoform	50.0	42.7		ug/L		85	60 - 134
Bromomethane	50.0	56.0		ug/L		112	10 - 171
2-Butanone (MEK)	100	90.6		ug/L		91	55 - 142
Carbon disulfide	50.0	51.6		ug/L		103	63 - 142
Carbon tetrachloride	50.0	51.3		ug/L		103	70 - 131
Chlorobenzene	50.0	47.6		ug/L		95	79 - 120
Chlorobromomethane	50.0	51.6		ug/L		103	60 - 136
Chlorodibromomethane	50.0	52.1		ug/L		104	63 - 134
Chloroethane	50.0	54.1		ug/L		108	47 - 148
Chloroform	50.0	54.9		ug/L		110	76 - 128
Chloromethane	50.0	58.1		ug/L		116	47 - 151
cis-1,2-Dichloroethene	50.0	55.1		ug/L		110	78 - 127
cis-1,3-Dichloropropene	50.0	55.6		ug/L		111	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	37.7		ug/L		75	57 - 126
Dibromomethane	50.0	48.0		ug/L		96	75 - 122
1,2-Dichlorobenzene	50.0	45.6		ug/L		91	77 - 124
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	76 - 124
Dichlorobromomethane	50.0	53.4		ug/L		107	72 - 129
1,1-Dichloroethane	50.0	55.0		ug/L		110	69 - 132
1,2-Dichloroethane	50.0	46.2		ug/L		92	75 - 120
1,1-Dichloroethene	50.0	49.0		ug/L		98	73 - 134
1,2-Dichloropropane	50.0	49.2		ug/L		98	71 - 126
Ethylbenzene	50.0	49.6		ug/L		99	78 - 125
Ethylene Dibromide	50.0	47.4		ug/L		95	75 - 127
2-Hexanone	100	84.3		ug/L		84	52 - 149
Methylene Chloride	50.0	52.5		ug/L		105	79 - 124
4-Methyl-2-pentanone (MIBK)	100	86.6		ug/L		87	51 - 143
Styrene	50.0	48.3		ug/L		97	75 - 129
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/L		110	68 - 132
1,1,1,2,2-Tetrachloroethane	50.0	39.4		ug/L		79	71 - 127
Tetrachloroethene	50.0	53.9		ug/L		108	77 - 128
Toluene	50.0	50.6		ug/L		101	77 - 125
trans-1,2-Dichloroethene	50.0	55.8		ug/L		112	78 - 130
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	72 - 127
1,1,1-Trichloroethane	50.0	58.5		ug/L		117	76 - 126
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	69 - 127
Trichloroethene	50.0	52.8		ug/L		106	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-318821/4

Matrix: Water

Analysis Batch: 318821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	51.3		ug/L		103	66 - 144
1,2,3-Trichloropropane	50.0	39.2		ug/L		78	74 - 126
Vinyl acetate	100	130		ug/L		130	10 - 200
Vinyl chloride	50.0	52.1		ug/L		104	58 - 141
Xylenes, Total	150	149		ug/L		99	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 680-318821/5

Matrix: Water

Analysis Batch: 318821

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	100	90.5		ug/L		91	39 - 162	1	50
Benzene	50.0	49.3		ug/L		99	74 - 123	1	30
Bromoform	50.0	43.2		ug/L		86	60 - 134	1	30
Bromomethane	50.0	53.5		ug/L		107	10 - 171	4	50
2-Butanone (MEK)	100	92.6		ug/L		93	55 - 142	2	30
Carbon disulfide	50.0	49.5		ug/L		99	63 - 142	4	30
Carbon tetrachloride	50.0	50.0		ug/L		100	70 - 131	2	30
Chlorobenzene	50.0	47.6		ug/L		95	79 - 120	0	30
Chlorobromomethane	50.0	50.5		ug/L		101	60 - 136	2	30
Chlorodibromomethane	50.0	53.2		ug/L		106	63 - 134	2	50
Chloroethane	50.0	51.8		ug/L		104	47 - 148	4	40
Chloroform	50.0	53.4		ug/L		107	76 - 128	3	30
Chloromethane	50.0	55.8		ug/L		112	47 - 151	4	30
cis-1,2-Dichloroethene	50.0	52.5		ug/L		105	78 - 127	5	30
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	73 - 128	0	30
1,2-Dibromo-3-Chloropropane	50.0	39.9		ug/L		80	57 - 126	6	50
Dibromomethane	50.0	48.4		ug/L		97	75 - 122	1	30
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	77 - 124	2	30
1,4-Dichlorobenzene	50.0	46.8		ug/L		94	76 - 124	1	30
Dichlorobromomethane	50.0	53.7		ug/L		107	72 - 129	1	30
1,1-Dichloroethane	50.0	53.0		ug/L		106	69 - 132	4	30
1,2-Dichloroethane	50.0	46.5		ug/L		93	75 - 120	1	30
1,1-Dichloroethene	50.0	46.9		ug/L		94	73 - 134	4	30
1,2-Dichloropropane	50.0	49.6		ug/L		99	71 - 126	1	30
Ethylbenzene	50.0	49.3		ug/L		99	78 - 125	1	30
Ethylene Dibromide	50.0	48.0		ug/L		96	75 - 127	1	30
2-Hexanone	100	86.4		ug/L		86	52 - 149	3	30
Methylene Chloride	50.0	51.8		ug/L		104	79 - 124	1	30
4-Methyl-2-pentanone (MIBK)	100	89.6		ug/L		90	51 - 143	3	30
Styrene	50.0	48.9		ug/L		98	75 - 129	1	30
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	68 - 132	1	30
1,1,2,2-Tetrachloroethane	50.0	40.8		ug/L		82	71 - 127	4	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-318821/5

Matrix: Water

Analysis Batch: 318821

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
Tetrachloroethene	50.0	53.0		ug/L		106	77 - 128	2	30
Toluene	50.0	50.5		ug/L		101	77 - 125	0	30
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	78 - 130	4	30
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	72 - 127	1	50
1,1,1-Trichloroethane	50.0	57.2		ug/L		114	76 - 126	2	30
1,1,2-Trichloroethane	50.0	46.8		ug/L		94	69 - 127	2	30
Trichloroethene	50.0	52.9		ug/L		106	80 - 120	0	30
Trichlorofluoromethane	50.0	48.8		ug/L		98	66 - 144	5	30
1,2,3-Trichloropropane	50.0	41.0		ug/L		82	74 - 126	5	30
Vinyl acetate	100	118		ug/L		118	10 - 200	9	30
Vinyl chloride	50.0	49.8		ug/L		100	58 - 141	4	30
Xylenes, Total	150	148		ug/L		99	80 - 124	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	91		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 680-319036/10

Matrix: Water

Analysis Batch: 319036

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			03/11/14 12:57	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 12:57	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 12:57	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 12:57	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 12:57	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 12:57	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 12:57	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 12:57	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 12:57	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 12:57	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 12:57	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 12:57	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 12:57	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 12:57	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 12:57	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 12:57	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 12:57	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 12:57	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 12:57	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 12:57	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 12:57	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319036/10

Matrix: Water

Analysis Batch: 319036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 12:57	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 12:57	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 12:57	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 12:57	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 12:57	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 12:57	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 12:57	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 12:57	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 12:57	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 12:57	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 12:57	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 12:57	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 12:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 12:57	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 12:57	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 12:57	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 12:57	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 12:57	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 12:57	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 12:57	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		70 - 130		03/11/14 12:57	1
Dibromofluoromethane	107		70 - 130		03/11/14 12:57	1
Toluene-d8 (Surr)	91		70 - 130		03/11/14 12:57	1

Lab Sample ID: LCS 680-319036/5

Matrix: Water

Analysis Batch: 319036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	109		ug/L		109	39 - 162
Benzene	50.0	57.3		ug/L		115	74 - 123
Bromoform	50.0	52.1		ug/L		104	60 - 134
Bromomethane	50.0	37.5		ug/L		75	10 - 171
2-Butanone (MEK)	100	93.6		ug/L		94	55 - 142
Carbon disulfide	50.0	62.4		ug/L		125	63 - 142
Carbon tetrachloride	50.0	60.2		ug/L		120	70 - 131
Chlorobenzene	50.0	54.6		ug/L		109	79 - 120
Chlorobromomethane	50.0	55.4		ug/L		111	60 - 136
Chlorodibromomethane	50.0	50.7		ug/L		101	63 - 134
Chloroethane	50.0	67.1		ug/L		134	47 - 148
Chloroform	50.0	55.0		ug/L		110	76 - 128
Chloromethane	50.0	63.4		ug/L		127	47 - 151
cis-1,2-Dichloroethene	50.0	58.3		ug/L		117	78 - 127
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	73 - 128

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-319036/5

Matrix: Water

Analysis Batch: 319036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/L		99	57 - 126
Dibromomethane	50.0	51.6		ug/L		103	75 - 122
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	77 - 124
1,4-Dichlorobenzene	50.0	54.3		ug/L		109	76 - 124
Dichlorobromomethane	50.0	54.8		ug/L		110	72 - 129
1,1-Dichloroethane	50.0	59.7		ug/L		119	69 - 132
1,2-Dichloroethane	50.0	53.9		ug/L		108	75 - 120
1,1-Dichloroethene	50.0	65.2		ug/L		130	73 - 134
1,2-Dichloropropane	50.0	53.0		ug/L		106	71 - 126
Ethylbenzene	50.0	57.6		ug/L		115	78 - 125
Ethylene Dibromide	50.0	52.3		ug/L		105	75 - 127
2-Hexanone	100	102		ug/L		102	52 - 149
Methylene Chloride	50.0	62.7	J	ug/L		125	79 - 124
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	51 - 143
Styrene	50.0	57.4		ug/L		115	75 - 129
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	68 - 132
1,1,2,2-Tetrachloroethane	50.0	55.3		ug/L		111	71 - 127
Tetrachloroethene	50.0	57.4		ug/L		115	77 - 128
Toluene	50.0	57.0		ug/L		114	77 - 125
trans-1,2-Dichloroethene	50.0	61.8		ug/L		124	78 - 130
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	72 - 127
1,1,1-Trichloroethane	50.0	59.8		ug/L		120	76 - 126
1,1,2-Trichloroethane	50.0	55.6		ug/L		111	69 - 127
Trichloroethene	50.0	56.2		ug/L		112	80 - 120
Trichlorofluoromethane	50.0	70.9		ug/L		142	66 - 144
1,2,3-Trichloropropane	50.0	53.2		ug/L		106	74 - 126
Vinyl acetate	100	185		ug/L		185	10 - 200
Vinyl chloride	50.0	69.1		ug/L		138	58 - 141
Xylenes, Total	150	171		ug/L		114	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 680-319036/7

Matrix: Water

Analysis Batch: 319036

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	100	92.1		ug/L		92	39 - 162	17	50
Benzene	50.0	53.4		ug/L		107	74 - 123	7	30
Bromoform	50.0	45.4		ug/L		91	60 - 134	14	30
Bromomethane	50.0	37.7		ug/L		75	10 - 171	1	50
2-Butanone (MEK)	100	80.4		ug/L		80	55 - 142	15	30
Carbon disulfide	50.0	59.7		ug/L		119	63 - 142	4	30
Carbon tetrachloride	50.0	56.0		ug/L		112	70 - 131	7	30
Chlorobenzene	50.0	50.5		ug/L		101	79 - 120	8	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-319036/7

Matrix: Water

Analysis Batch: 319036

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
Chlorobromomethane	50.0	50.9		ug/L		102	60 - 136	8	30
Chlorodibromomethane	50.0	48.0		ug/L		96	63 - 134	6	50
Chloroethane	50.0	68.7		ug/L		137	47 - 148	2	40
Chloroform	50.0	49.3		ug/L		99	76 - 128	11	30
Chloromethane	50.0	61.9		ug/L		124	47 - 151	2	30
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	78 - 127	10	30
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	73 - 128	7	30
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/L		75	57 - 126	27	50
Dibromomethane	50.0	47.4		ug/L		95	75 - 122	8	30
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	77 - 124	10	30
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	76 - 124	7	30
Dichlorobromomethane	50.0	49.9		ug/L		100	72 - 129	9	30
1,1-Dichloroethane	50.0	52.2		ug/L		104	69 - 132	13	30
1,2-Dichloroethane	50.0	49.3		ug/L		99	75 - 120	9	30
1,1-Dichloroethene	50.0	61.0		ug/L		122	73 - 134	7	30
1,2-Dichloropropane	50.0	49.1		ug/L		98	71 - 126	8	30
Ethylbenzene	50.0	52.9		ug/L		106	78 - 125	8	30
Ethylene Dibromide	50.0	50.8		ug/L		102	75 - 127	3	30
2-Hexanone	100	91.2		ug/L		91	52 - 149	11	30
Methylene Chloride	50.0	58.0		ug/L		116	79 - 124	8	30
4-Methyl-2-pentanone (MIBK)	100	93.5		ug/L		93	51 - 143	8	30
Styrene	50.0	50.8		ug/L		102	75 - 129	12	30
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/L		95	68 - 132	11	30
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	71 - 127	15	30
Tetrachloroethene	50.0	53.9		ug/L		108	77 - 128	6	30
Toluene	50.0	52.6		ug/L		105	77 - 125	8	30
trans-1,2-Dichloroethene	50.0	56.9		ug/L		114	78 - 130	8	30
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	72 - 127	3	50
1,1,1-Trichloroethane	50.0	56.1		ug/L		112	76 - 126	6	30
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	69 - 127	3	30
Trichloroethene	50.0	50.6		ug/L		101	80 - 120	10	30
Trichlorofluoromethane	50.0	68.8		ug/L		138	66 - 144	3	30
1,2,3-Trichloropropane	50.0	46.6		ug/L		93	74 - 126	13	30
Vinyl acetate	100	169		ug/L		169	10 - 200	9	30
Vinyl chloride	50.0	67.2		ug/L		134	58 - 141	3	30
Xylenes, Total	150	151		ug/L		101	80 - 124	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 680-319041/8

Matrix: Water

Analysis Batch: 319041

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			03/11/14 13:00	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319041/8

Matrix: Water

Analysis Batch: 319041

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	7.2	U	20	7.2	ug/L			03/11/14 13:00	1
Benzene	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/11/14 13:00	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/11/14 13:00	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/11/14 13:00	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/11/14 13:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/11/14 13:00	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/11/14 13:00	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/11/14 13:00	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/11/14 13:00	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/11/14 13:00	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/11/14 13:00	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 13:00	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/11/14 13:00	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/11/14 13:00	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/11/14 13:00	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/11/14 13:00	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/11/14 13:00	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/11/14 13:00	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/11/14 13:00	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/11/14 13:00	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/11/14 13:00	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/11/14 13:00	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/11/14 13:00	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/11/14 13:00	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/11/14 13:00	1
Styrene	0.11	U	1.0	0.11	ug/L			03/11/14 13:00	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/11/14 13:00	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/11/14 13:00	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/11/14 13:00	1
Toluene	0.33	U	1.0	0.33	ug/L			03/11/14 13:00	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/11/14 13:00	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/11/14 13:00	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/11/14 13:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/11/14 13:00	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/11/14 13:00	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/11/14 13:00	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/11/14 13:00	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/11/14 13:00	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/11/14 13:00	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/11/14 13:00	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/11/14 13:00	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319041/8

Matrix: Water

Analysis Batch: 319041

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		70 - 130		03/11/14 13:00	1
Dibromofluoromethane	109		70 - 130		03/11/14 13:00	1
Toluene-d8 (Surr)	95		70 - 130		03/11/14 13:00	1

Lab Sample ID: LCS 680-319041/4

Matrix: Water

Analysis Batch: 319041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	92.7		ug/L		93	39 - 162
Benzene	50.0	51.4		ug/L		103	74 - 123
Bromoform	50.0	47.2		ug/L		94	60 - 134
Bromomethane	50.0	48.3		ug/L		97	10 - 171
2-Butanone (MEK)	100	93.9		ug/L		94	55 - 142
Carbon disulfide	50.0	46.4		ug/L		93	63 - 142
Carbon tetrachloride	50.0	47.8		ug/L		96	70 - 131
Chlorobenzene	50.0	52.5		ug/L		105	79 - 120
Chlorobromomethane	50.0	50.8		ug/L		102	60 - 136
Chlorodibromomethane	50.0	57.3		ug/L		115	63 - 134
Chloroethane	50.0	52.9		ug/L		106	47 - 148
Chloroform	50.0	53.7		ug/L		107	76 - 128
Chloromethane	50.0	56.8		ug/L		114	47 - 151
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	78 - 127
cis-1,3-Dichloropropene	50.0	57.0		ug/L		114	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	42.6		ug/L		85	57 - 126
Dibromomethane	50.0	50.7		ug/L		101	75 - 122
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	77 - 124
1,4-Dichlorobenzene	50.0	53.3		ug/L		107	76 - 124
Dichlorobromomethane	50.0	56.5		ug/L		113	72 - 129
1,1-Dichloroethane	50.0	52.5		ug/L		105	69 - 132
1,2-Dichloroethane	50.0	49.1		ug/L		98	75 - 120
1,1-Dichloroethene	50.0	43.6		ug/L		87	73 - 134
1,2-Dichloropropane	50.0	51.5		ug/L		103	71 - 126
Ethylbenzene	50.0	54.1		ug/L		108	78 - 125
Ethylene Dibromide	50.0	51.0		ug/L		102	75 - 127
2-Hexanone	100	94.9		ug/L		95	52 - 149
Methylene Chloride	50.0	54.7		ug/L		109	79 - 124
4-Methyl-2-pentanone (MIBK)	100	95.7		ug/L		96	51 - 143
Styrene	50.0	54.0		ug/L		108	75 - 129
1,1,1,2-Tetrachloroethane	50.0	58.7		ug/L		117	68 - 132
1,1,1,2,2-Tetrachloroethane	50.0	45.3		ug/L		91	71 - 127
Tetrachloroethene	50.0	54.3		ug/L		109	77 - 128
Toluene	50.0	53.4		ug/L		107	77 - 125
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	78 - 130
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	72 - 127
1,1,1-Trichloroethane	50.0	56.4		ug/L		113	76 - 126
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	69 - 127
Trichloroethene	50.0	53.4		ug/L		107	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-319041/4

Matrix: Water

Analysis Batch: 319041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.5		ug/L		89	66 - 144
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	74 - 126
Vinyl acetate	100	195		ug/L		195	10 - 200
Vinyl chloride	50.0	46.0		ug/L		92	58 - 141
Xylenes, Total	150	161		ug/L		107	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 680-319041/5

Matrix: Water

Analysis Batch: 319041

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	100	90.9		ug/L		91	39 - 162	2	50
Benzene	50.0	51.0		ug/L		102	74 - 123	1	30
Bromoform	50.0	44.1		ug/L		88	60 - 134	7	30
Bromomethane	50.0	51.9		ug/L		104	10 - 171	7	50
2-Butanone (MEK)	100	89.2		ug/L		89	55 - 142	5	30
Carbon disulfide	50.0	46.7		ug/L		93	63 - 142	1	30
Carbon tetrachloride	50.0	47.5		ug/L		95	70 - 131	1	30
Chlorobenzene	50.0	51.9		ug/L		104	79 - 120	1	30
Chlorobromomethane	50.0	49.2		ug/L		98	60 - 136	3	30
Chlorodibromomethane	50.0	55.2		ug/L		110	63 - 134	4	50
Chloroethane	50.0	53.9		ug/L		108	47 - 148	2	40
Chloroform	50.0	53.4		ug/L		107	76 - 128	1	30
Chloromethane	50.0	56.9		ug/L		114	47 - 151	0	30
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	78 - 127	0	30
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	73 - 128	5	30
1,2-Dibromo-3-Chloropropane	50.0	39.8		ug/L		80	57 - 126	7	50
Dibromomethane	50.0	48.2		ug/L		96	75 - 122	5	30
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	77 - 124	2	30
1,4-Dichlorobenzene	50.0	51.9		ug/L		104	76 - 124	3	30
Dichlorobromomethane	50.0	53.9		ug/L		108	72 - 129	5	30
1,1-Dichloroethane	50.0	52.3		ug/L		105	69 - 132	0	30
1,2-Dichloroethane	50.0	47.1		ug/L		94	75 - 120	4	30
1,1-Dichloroethene	50.0	44.8		ug/L		90	73 - 134	3	30
1,2-Dichloropropane	50.0	50.4		ug/L		101	71 - 126	2	30
Ethylbenzene	50.0	53.7		ug/L		107	78 - 125	1	30
Ethylene Dibromide	50.0	49.1		ug/L		98	75 - 127	4	30
2-Hexanone	100	90.3		ug/L		90	52 - 149	5	30
Methylene Chloride	50.0	53.3		ug/L		107	79 - 124	3	30
4-Methyl-2-pentanone (MIBK)	100	90.8		ug/L		91	51 - 143	5	30
Styrene	50.0	53.4		ug/L		107	75 - 129	1	30
1,1,1,2-Tetrachloroethane	50.0	56.2		ug/L		112	68 - 132	4	30
1,1,2,2-Tetrachloroethane	50.0	43.3		ug/L		87	71 - 127	5	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-319041/5

Matrix: Water

Analysis Batch: 319041

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
Tetrachloroethene	50.0	54.0		ug/L		108	77 - 128	1	30
Toluene	50.0	52.2		ug/L		104	77 - 125	2	30
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	78 - 130	2	30
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	72 - 127	5	50
1,1,1-Trichloroethane	50.0	55.8		ug/L		112	76 - 126	1	30
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	69 - 127	5	30
Trichloroethene	50.0	52.4		ug/L		105	80 - 120	2	30
Trichlorofluoromethane	50.0	44.8		ug/L		90	66 - 144	1	30
1,2,3-Trichloropropane	50.0	42.7		ug/L		85	74 - 126	4	30
Vinyl acetate	100	189		ug/L		189	10 - 200	4	30
Vinyl chloride	50.0	46.8		ug/L		94	58 - 141	2	30
Xylenes, Total	150	158		ug/L		105	80 - 124	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 680-319225/9

Matrix: Water

Analysis Batch: 319225

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			03/12/14 13:31	1
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 13:31	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 13:31	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 13:31	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 13:31	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 13:31	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 13:31	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 13:31	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 13:31	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 13:31	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 13:31	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 13:31	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 13:31	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 13:31	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 13:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 13:31	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 13:31	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 13:31	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 13:31	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 13:31	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 13:31	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319225/9

Matrix: Water

Analysis Batch: 319225

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 13:31	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 13:31	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 13:31	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 13:31	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 13:31	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 13:31	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 13:31	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 13:31	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 13:31	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 13:31	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 13:31	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 13:31	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 13:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 13:31	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 13:31	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 13:31	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 13:31	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 13:31	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 13:31	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 13:31	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 13:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		03/12/14 13:31	1
Dibromofluoromethane	101		70 - 130		03/12/14 13:31	1
Toluene-d8 (Surr)	94		70 - 130		03/12/14 13:31	1

Lab Sample ID: LCS 680-319225/4

Matrix: Water

Analysis Batch: 319225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	105		ug/L		105	39 - 162
Benzene	50.0	51.5		ug/L		103	74 - 123
Bromoform	50.0	50.5		ug/L		101	60 - 134
Bromomethane	50.0	33.0		ug/L		66	10 - 171
2-Butanone (MEK)	100	104		ug/L		104	55 - 142
Carbon disulfide	50.0	52.0		ug/L		104	63 - 142
Carbon tetrachloride	50.0	52.5		ug/L		105	70 - 131
Chlorobenzene	50.0	51.9		ug/L		104	79 - 120
Chlorobromomethane	50.0	49.3		ug/L		99	60 - 136
Chlorodibromomethane	50.0	49.8		ug/L		100	63 - 134
Chloroethane	50.0	45.8		ug/L		92	47 - 148
Chloroform	50.0	49.4		ug/L		99	76 - 128
Chloromethane	50.0	51.0		ug/L		102	47 - 151
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 127
cis-1,3-Dichloropropene	50.0	48.4		ug/L		97	73 - 128

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-319225/4

Matrix: Water

Analysis Batch: 319225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	57 - 126
Dibromomethane	50.0	46.7		ug/L		93	75 - 122
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	77 - 124
1,4-Dichlorobenzene	50.0	52.9		ug/L		106	76 - 124
Dichlorobromomethane	50.0	48.9		ug/L		98	72 - 129
1,1-Dichloroethane	50.0	51.0		ug/L		102	69 - 132
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 120
1,1-Dichloroethene	50.0	50.7		ug/L		101	73 - 134
1,2-Dichloropropane	50.0	49.0		ug/L		98	71 - 126
Ethylbenzene	50.0	53.5		ug/L		107	78 - 125
Ethylene Dibromide	50.0	49.1		ug/L		98	75 - 127
2-Hexanone	100	99.3		ug/L		99	52 - 149
Methylene Chloride	50.0	50.9		ug/L		102	79 - 124
4-Methyl-2-pentanone (MIBK)	100	98.0		ug/L		98	51 - 143
Styrene	50.0	53.4		ug/L		107	75 - 129
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	68 - 132
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	71 - 127
Tetrachloroethene	50.0	52.3		ug/L		105	77 - 128
Toluene	50.0	51.5		ug/L		103	77 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	78 - 130
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	72 - 127
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	76 - 126
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	69 - 127
Trichloroethene	50.0	50.1		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	46.2		ug/L		92	66 - 144
1,2,3-Trichloropropane	50.0	48.6		ug/L		97	74 - 126
Vinyl acetate	100	194		ug/L		194	10 - 200
Vinyl chloride	50.0	47.4		ug/L		95	58 - 141
Xylenes, Total	150	158		ug/L		106	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 680-319225/5

Matrix: Water

Analysis Batch: 319225

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	100	102		ug/L		102	39 - 162	3	50
Benzene	50.0	54.4		ug/L		109	74 - 123	6	30
Bromoform	50.0	50.3		ug/L		101	60 - 134	0	30
Bromomethane	50.0	36.8		ug/L		74	10 - 171	11	50
2-Butanone (MEK)	100	107		ug/L		107	55 - 142	3	30
Carbon disulfide	50.0	50.0		ug/L		100	63 - 142	4	30
Carbon tetrachloride	50.0	54.3		ug/L		109	70 - 131	3	30
Chlorobenzene	50.0	52.8		ug/L		106	79 - 120	2	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-319225/5

Matrix: Water

Analysis Batch: 319225

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
Chlorobromomethane	50.0	49.9		ug/L		100	60 - 136	1	30
Chlorodibromomethane	50.0	50.5		ug/L		101	63 - 134	1	50
Chloroethane	50.0	50.3		ug/L		101	47 - 148	9	40
Chloroform	50.0	50.2		ug/L		100	76 - 128	1	30
Chloromethane	50.0	51.5		ug/L		103	47 - 151	1	30
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 127	1	30
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	73 - 128	8	30
1,2-Dibromo-3-Chloropropane	50.0	52.2		ug/L		104	57 - 126	2	50
Dibromomethane	50.0	50.6		ug/L		101	75 - 122	8	30
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	77 - 124	2	30
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	76 - 124	3	30
Dichlorobromomethane	50.0	51.4		ug/L		103	72 - 129	5	30
1,1-Dichloroethane	50.0	52.0		ug/L		104	69 - 132	2	30
1,2-Dichloroethane	50.0	52.3		ug/L		105	75 - 120	6	30
1,1-Dichloroethene	50.0	52.0		ug/L		104	73 - 134	2	30
1,2-Dichloropropane	50.0	52.8		ug/L		106	71 - 126	7	30
Ethylbenzene	50.0	53.4		ug/L		107	78 - 125	0	30
Ethylene Dibromide	50.0	50.8		ug/L		102	75 - 127	4	30
2-Hexanone	100	101		ug/L		101	52 - 149	2	30
Methylene Chloride	50.0	51.7		ug/L		103	79 - 124	2	30
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	51 - 143	6	30
Styrene	50.0	53.9		ug/L		108	75 - 129	1	30
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	68 - 132	2	30
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	71 - 127	3	30
Tetrachloroethene	50.0	52.1		ug/L		104	77 - 128	0	30
Toluene	50.0	54.7		ug/L		109	77 - 125	6	30
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	78 - 130	2	30
trans-1,3-Dichloropropene	50.0	54.3		ug/L		109	72 - 127	6	50
1,1,1-Trichloroethane	50.0	54.8		ug/L		110	76 - 126	6	30
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	69 - 127	7	30
Trichloroethene	50.0	52.1		ug/L		104	80 - 120	4	30
Trichlorofluoromethane	50.0	46.4		ug/L		93	66 - 144	1	30
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	74 - 126	2	30
Vinyl acetate	100	151		ug/L		151	10 - 200	25	30
Vinyl chloride	50.0	48.0		ug/L		96	58 - 141	1	30
Xylenes, Total	150	158		ug/L		105	80 - 124	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 680-319228/8

Matrix: Water

Analysis Batch: 319228

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			03/12/14 11:08	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319228/8

Matrix: Water

Analysis Batch: 319228

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	7.2	U	20	7.2	ug/L			03/12/14 11:08	1
Benzene	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
Bromoform	0.50	U	1.0	0.50	ug/L			03/12/14 11:08	1
Bromomethane	2.0	U	5.0	2.0	ug/L			03/12/14 11:08	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			03/12/14 11:08	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			03/12/14 11:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			03/12/14 11:08	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			03/12/14 11:08	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			03/12/14 11:08	1
Chloroethane	2.0	U	5.0	2.0	ug/L			03/12/14 11:08	1
Chloroform	0.14	U	1.0	0.14	ug/L			03/12/14 11:08	1
Chloromethane	0.33	U	1.0	0.33	ug/L			03/12/14 11:08	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 11:08	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			03/12/14 11:08	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			03/12/14 11:08	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/12/14 11:08	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			03/12/14 11:08	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			03/12/14 11:08	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			03/12/14 11:08	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			03/12/14 11:08	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			03/12/14 11:08	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			03/12/14 11:08	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/12/14 11:08	1
Iodomethane	1.0	U	5.0	1.0	ug/L			03/12/14 11:08	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			03/12/14 11:08	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			03/12/14 11:08	1
Styrene	0.11	U	1.0	0.11	ug/L			03/12/14 11:08	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			03/12/14 11:08	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			03/12/14 11:08	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			03/12/14 11:08	1
Toluene	0.33	U	1.0	0.33	ug/L			03/12/14 11:08	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			03/12/14 11:08	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			03/12/14 11:08	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			03/12/14 11:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			03/12/14 11:08	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			03/12/14 11:08	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			03/12/14 11:08	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			03/12/14 11:08	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			03/12/14 11:08	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			03/12/14 11:08	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			03/12/14 11:08	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			03/12/14 11:08	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-319228/8

Matrix: Water

Analysis Batch: 319228

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		03/12/14 11:08	1
Dibromofluoromethane	119		70 - 130		03/12/14 11:08	1
Toluene-d8 (Surr)	90		70 - 130		03/12/14 11:08	1

Lab Sample ID: LCS 680-319228/4

Matrix: Water

Analysis Batch: 319228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	100		ug/L		100	39 - 162
Benzene	50.0	49.3		ug/L		99	74 - 123
Bromoform	50.0	47.1		ug/L		94	60 - 134
Bromomethane	50.0	55.6		ug/L		111	10 - 171
2-Butanone (MEK)	100	80.2		ug/L		80	55 - 142
Carbon disulfide	50.0	53.4		ug/L		107	63 - 142
Carbon tetrachloride	50.0	52.1		ug/L		104	70 - 131
Chlorobenzene	50.0	51.8		ug/L		104	79 - 120
Chlorobromomethane	50.0	52.5		ug/L		105	60 - 136
Chlorodibromomethane	50.0	48.4		ug/L		97	63 - 134
Chloroethane	50.0	55.0		ug/L		110	47 - 148
Chloroform	50.0	51.6		ug/L		103	76 - 128
Chloromethane	50.0	61.7		ug/L		123	47 - 151
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 127
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	73 - 128
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	57 - 126
Dibromomethane	50.0	49.7		ug/L		99	75 - 122
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	77 - 124
1,4-Dichlorobenzene	50.0	52.0		ug/L		104	76 - 124
Dichlorobromomethane	50.0	47.0		ug/L		94	72 - 129
1,1-Dichloroethane	50.0	51.0		ug/L		102	69 - 132
1,2-Dichloroethane	50.0	45.8		ug/L		92	75 - 120
1,1-Dichloroethene	50.0	55.4		ug/L		111	73 - 134
1,2-Dichloropropane	50.0	48.2		ug/L		96	71 - 126
Ethylbenzene	50.0	50.9		ug/L		102	78 - 125
Ethylene Dibromide	50.0	48.3		ug/L		97	75 - 127
2-Hexanone	100	82.0		ug/L		82	52 - 149
Methylene Chloride	50.0	53.8		ug/L		108	79 - 124
4-Methyl-2-pentanone (MIBK)	100	83.4		ug/L		83	51 - 143
Styrene	50.0	49.8		ug/L		100	75 - 129
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/L		103	68 - 132
1,1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	71 - 127
Tetrachloroethene	50.0	48.9		ug/L		98	77 - 128
Toluene	50.0	46.9		ug/L		94	77 - 125
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 130
trans-1,3-Dichloropropene	50.0	52.0		ug/L		104	72 - 127
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	76 - 126
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	69 - 127
Trichloroethene	50.0	47.8		ug/L		96	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-319228/4

Matrix: Water

Analysis Batch: 319228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	51.9		ug/L		104	66 - 144
1,2,3-Trichloropropane	50.0	46.9		ug/L		94	74 - 126
Vinyl acetate	100	147		ug/L		147	10 - 200
Vinyl chloride	50.0	51.4		ug/L		103	58 - 141
Xylenes, Total	150	148		ug/L		99	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Lab Sample ID: LCSD 680-319228/5

Matrix: Water

Analysis Batch: 319228

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	100	95.3		ug/L		95	39 - 162	5	50
Benzene	50.0	50.7		ug/L		101	74 - 123	3	30
Bromoform	50.0	47.8		ug/L		96	60 - 134	2	30
Bromomethane	50.0	52.1		ug/L		104	10 - 171	6	50
2-Butanone (MEK)	100	84.2		ug/L		84	55 - 142	5	30
Carbon disulfide	50.0	55.4		ug/L		111	63 - 142	4	30
Carbon tetrachloride	50.0	53.7		ug/L		107	70 - 131	3	30
Chlorobenzene	50.0	53.9		ug/L		108	79 - 120	4	30
Chlorobromomethane	50.0	53.0		ug/L		106	60 - 136	1	30
Chlorodibromomethane	50.0	48.7		ug/L		97	63 - 134	1	50
Chloroethane	50.0	52.7		ug/L		105	47 - 148	4	40
Chloroform	50.0	54.9		ug/L		110	76 - 128	6	30
Chloromethane	50.0	67.7		ug/L		135	47 - 151	9	30
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	78 - 127	5	30
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	73 - 128	1	30
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/L		97	57 - 126	0	50
Dibromomethane	50.0	48.2		ug/L		96	75 - 122	3	30
1,2-Dichlorobenzene	50.0	52.5		ug/L		105	77 - 124	4	30
1,4-Dichlorobenzene	50.0	53.5		ug/L		107	76 - 124	3	30
Dichlorobromomethane	50.0	47.2		ug/L		94	72 - 129	0	30
1,1-Dichloroethane	50.0	54.9		ug/L		110	69 - 132	8	30
1,2-Dichloroethane	50.0	45.3		ug/L		91	75 - 120	1	30
1,1-Dichloroethene	50.0	58.5		ug/L		117	73 - 134	6	30
1,2-Dichloropropane	50.0	48.1		ug/L		96	71 - 126	0	30
Ethylbenzene	50.0	54.5		ug/L		109	78 - 125	7	30
Ethylene Dibromide	50.0	47.4		ug/L		95	75 - 127	2	30
2-Hexanone	100	86.6		ug/L		87	52 - 149	5	30
Methylene Chloride	50.0	54.9		ug/L		110	79 - 124	2	30
4-Methyl-2-pentanone (MIBK)	100	82.8		ug/L		83	51 - 143	1	30
Styrene	50.0	52.2		ug/L		104	75 - 129	5	30
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/L		108	68 - 132	5	30
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	71 - 127	2	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-319228/5

Matrix: Water

Analysis Batch: 319228

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
Tetrachloroethene	50.0	51.8		ug/L		104	77 - 128	6	30
Toluene	50.0	48.0		ug/L		96	77 - 125	2	30
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 130	6	30
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	72 - 127	3	50
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	76 - 126	2	30
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	69 - 127	2	30
Trichloroethene	50.0	49.9		ug/L		100	80 - 120	4	30
Trichlorofluoromethane	50.0	53.4		ug/L		107	66 - 144	3	30
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	74 - 126	3	30
Vinyl acetate	100	150		ug/L		150	10 - 200	2	30
Vinyl chloride	50.0	58.5		ug/L		117	58 - 141	13	30
Xylenes, Total	150	157		ug/L		105	80 - 124	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	93		70 - 130

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

Lab Sample ID: MB 680-318951/10-A

Matrix: Water

Analysis Batch: 318974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318951

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/10/14 15:30	03/10/14 19:20	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/10/14 15:30	03/10/14 19:20	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	116		60 - 144	03/10/14 15:30	03/10/14 19:20	1

Lab Sample ID: LCS 680-318951/11-A

Matrix: Water

Analysis Batch: 318974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.107		ug/L		107	70 - 148
EDB	0.100	0.104		ug/L		104	66 - 126

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
Pentachloroethane	114		60 - 144

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCSD 680-318951/12-A

Matrix: Water

Analysis Batch: 318974

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 318951

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.100	0.110		ug/L		110	70 - 148	2	30
EDB	0.100	0.108		ug/L		108	66 - 126	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Pentachloroethane	115		60 - 144

Lab Sample ID: 640-47048-1 MS

Matrix: Water

Analysis Batch: 318974

Client Sample ID: MWB-32(S)d

Prep Type: Total/NA

Prep Batch: 318951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0054	U	0.111	0.123		ug/L		111	70 - 148		
EDB	0.0024	U	0.111	0.117		ug/L		105	66 - 126		

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	125		60 - 144

Lab Sample ID: 640-47048-1 MSD

Matrix: Water

Analysis Batch: 318974

Client Sample ID: MWB-32(S)d

Prep Type: Total/NA

Prep Batch: 318951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0054	U	0.109	0.123		ug/L		113	70 - 148	0	30
EDB	0.0024	U	0.109	0.118		ug/L		109	66 - 126	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Pentachloroethane	125		60 - 144

Lab Sample ID: 640-47048-2 MS

Matrix: Water

Analysis Batch: 318974

Client Sample ID: MWB-32(I)d

Prep Type: Total/NA

Prep Batch: 318951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0054	U	0.108	0.118		ug/L		110	70 - 148		
EDB	0.0024	U	0.108	0.117		ug/L		109	66 - 126		

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	127		60 - 144

Lab Sample ID: MB 680-318954/3-A

Matrix: Water

Analysis Batch: 318975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318954

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/10/14 15:30	03/10/14 23:27	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/10/14 15:30	03/10/14 23:27	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-318954/3-A

Matrix: Water

Analysis Batch: 318975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318954

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		60 - 144	03/10/14 15:30	03/10/14 23:27	1

Lab Sample ID: LCS 680-318954/4-A

Matrix: Water

Analysis Batch: 318975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.108		ug/L		108	70 - 148
EDB	0.100	0.103		ug/L		103	66 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Pentachloroethane	105		60 - 144				

Lab Sample ID: LCSD 680-318954/5-A

Matrix: Water

Analysis Batch: 318975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 318954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
DBCP	0.100	0.109		ug/L		109	70 - 148	1	30
EDB	0.100	0.104		ug/L		104	66 - 126	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	108		60 - 144						

Lab Sample ID: 640-47063-1 MS

Matrix: Water

Analysis Batch: 318975

Client Sample ID: MWB-3(I)b

Prep Type: Total/NA

Prep Batch: 318954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0054	U	0.104	0.116		ug/L		112	70 - 148
EDB	0.0024	U	0.104	0.109		ug/L		105	66 - 126
Surrogate	MS %Recovery	MS Qualifier	Limits						
Pentachloroethane	128		60 - 144						

Lab Sample ID: MB 680-319170/10-A

Matrix: Water

Analysis Batch: 319197

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 319170

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/11/14 16:00	03/11/14 19:08	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/11/14 16:00	03/11/14 19:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
Pentachloroethane	114		60 - 144						

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-319170/11-A

Matrix: Water

Analysis Batch: 319197

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 319170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.106		ug/L		106	70 - 148
EDB	0.100	0.101		ug/L		101	66 - 126
Surrogate	%Recovery	LCS Qualifier	LCS	Limits			
Pentachloroethane	113			60 - 144			

Lab Sample ID: LCSD 680-319170/12-A

Matrix: Water

Analysis Batch: 319197

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 319170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.100	0.105		ug/L		105	70 - 148	1	30
EDB	0.100	0.0974		ug/L		97	66 - 126	4	30
Surrogate	%Recovery	LCSD Qualifier	LCSD	Limits					
Pentachloroethane	121			60 - 144					

Lab Sample ID: 640-47090-7 MS

Matrix: Water

Analysis Batch: 319197

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Prep Batch: 319170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0053	U	0.105	0.117		ug/L		111	70 - 148
EDB	0.0023	U	0.105	0.110		ug/L		105	66 - 126
Surrogate	%Recovery	MS Qualifier	MS	Limits					
Pentachloroethane	133			60 - 144					

Lab Sample ID: 640-47090-7 MSD

Matrix: Water

Analysis Batch: 319197

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Prep Batch: 319170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0053	U	0.102	0.113		ug/L		110	70 - 148	3	30
EDB	0.0023	U	0.102	0.102		ug/L		100	66 - 126	7	30
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
Pentachloroethane	133			60 - 144							

Lab Sample ID: 640-47090-8 MS

Matrix: Water

Analysis Batch: 319197

Client Sample ID: MWB-12(D)c

Prep Type: Total/NA

Prep Batch: 319170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.0054	U	0.103	0.110		ug/L		107	70 - 148
EDB	0.0024	U	0.103	0.104		ug/L		101	66 - 126

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: 640-47090-8 MS

Matrix: Water

Analysis Batch: 319197

Client Sample ID: MWB-12(D)c

Prep Type: Total/NA

Prep Batch: 319170

Surrogate	MS %Recovery	MS Qualifier	Limits
Pentachloroethane	132		60 - 144

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-319354/2

Matrix: Water

Analysis Batch: 319354

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			03/12/14 13:34	1

Lab Sample ID: LCS 680-319354/3

Matrix: Water

Analysis Batch: 319354

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	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-319354/4

Matrix: Water

Analysis Batch: 319354

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	10.1		mg/L		101	90 - 110	0	30

Lab Sample ID: 640-47048-8 MS

Matrix: Water

Analysis Batch: 319354

Client Sample ID: MWB-13(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	34		20.0	54.5		mg/L		103	80 - 120

Lab Sample ID: 640-47048-8 MSD

Matrix: Water

Analysis Batch: 319354

Client Sample ID: MWB-13(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	34		20.0	54.6		mg/L		103	80 - 120	0	30

Lab Sample ID: 640-47048-16 MS

Matrix: Water

Analysis Batch: 319354

Client Sample ID: MWB-19(I)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		10.0	15.9		mg/L		105	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 640-47048-16 MSD

Matrix: Water

Analysis Batch: 319354

Client Sample ID: MWB-19(I)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.4		10.0	15.9		mg/L		105	80 - 120	0	30

Lab Sample ID: MB 680-319563/32

Matrix: Water

Analysis Batch: 319563

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			03/13/14 22:25	1

Lab Sample ID: LCS 680-319563/33

Matrix: Water

Analysis Batch: 319563

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	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-319563/34

Matrix: Water

Analysis Batch: 319563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.95		mg/L		99	90 - 110	1	30

Lab Sample ID: 640-47063-13 MS

Matrix: Water

Analysis Batch: 319563

Client Sample ID: MWB-7(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		10.0	15.2		mg/L		98	80 - 120

Lab Sample ID: 640-47063-13 MSD

Matrix: Water

Analysis Batch: 319563

Client Sample ID: MWB-7(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.4		10.0	15.4		mg/L		100	80 - 120	1	30

Lab Sample ID: 640-47063-14 MS

Matrix: Water

Analysis Batch: 319563

Client Sample ID: MWB-7(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		10.0	24.4		mg/L		107	80 - 120

Lab Sample ID: 640-47063-14 MSD

Matrix: Water

Analysis Batch: 319563

Client Sample ID: MWB-7(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14		10.0	23.9		mg/L		103	80 - 120	2	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Lab Sample ID: MB 680-319688/44

Matrix: Water

Analysis Batch: 319688

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	-		03/14/14 21:16	1

Lab Sample ID: LCS 680-319688/45

Matrix: Water

Analysis Batch: 319688

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 680-319688/46

Matrix: Water

Analysis Batch: 319688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.99		mg/L	-	100	90 - 110	0	30

Lab Sample ID: 640-47090-7 MS

Matrix: Water

Analysis Batch: 319688

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.2		10.0	15.6		mg/L	-	104	80 - 120

Lab Sample ID: 640-47090-7 MSD

Matrix: Water

Analysis Batch: 319688

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.2		10.0	15.3		mg/L	-	100	80 - 120	2	30

Lab Sample ID: MB 680-320097/5

Matrix: Water

Analysis Batch: 320097

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	-		03/18/14 11:10	1

Lab Sample ID: LCS 680-320097/6

Matrix: Water

Analysis Batch: 320097

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 680-320097/7

Matrix: Water

Analysis Batch: 320097

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

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 640-47063-1 MS

Matrix: Water

Analysis Batch: 320097

Client Sample ID: MWB-3(I)b

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.3		10.0	16.4		mg/L		101	80 - 120

Lab Sample ID: 640-47063-1 MSD

Matrix: Water

Analysis Batch: 320097

Client Sample ID: MWB-3(I)b

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.3		10.0	17.0		mg/L		107	80 - 120	4	30

Lab Sample ID: 640-47063-12 MS

Matrix: Water

Analysis Batch: 320097

Client Sample ID: MWB-7(D)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.4		10.0	14.3		mg/L		99	80 - 120

Lab Sample ID: 640-47063-12 MSD

Matrix: Water

Analysis Batch: 320097

Client Sample ID: MWB-7(D)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.4		10.0	14.3		mg/L		100	80 - 120	0	30

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

Lab Sample ID: MB 400-210476/1-A

Matrix: Water

Analysis Batch: 210584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 210476

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		03/13/14 08:40	03/13/14 08:56	1

Lab Sample ID: LCS 400-210476/2-A

Matrix: Water

Analysis Batch: 210584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00412		ug/L		82	79 - 121

Lab Sample ID: LCSD 400-210476/3-A

Matrix: Water

Analysis Batch: 210584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 210476

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.00425		ug/L		85	79 - 121	3	20

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-318360/1-A
Matrix: Water
Analysis Batch: 318646

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 318360

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/05/14 13:48	03/06/14 18:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/05/14 13:48	03/06/14 18:40	1
Barium	1.3	U	5.0	1.3	ug/L		03/05/14 13:48	03/06/14 18:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/05/14 13:48	03/06/14 18:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/05/14 13:48	03/06/14 18:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/05/14 13:48	03/06/14 18:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/05/14 13:48	03/06/14 18:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/05/14 13:48	03/06/14 18:40	1
Iron	33	U	100	33	ug/L		03/05/14 13:48	03/06/14 18:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/05/14 13:48	03/06/14 18:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/05/14 13:48	03/06/14 18:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/05/14 13:48	03/06/14 18:40	1
Sodium	0.25	U	0.50	0.25	mg/L		03/05/14 13:48	03/06/14 18:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/05/14 13:48	03/06/14 18:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/05/14 13:48	03/06/14 18:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/05/14 13:48	03/06/14 18:40	1
Zinc	8.3	U	20	8.3	ug/L		03/05/14 13:48	03/06/14 18:40	1

Lab Sample ID: LCS 680-318360/2-A
Matrix: Water
Analysis Batch: 318646

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 318360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	55.9		ug/L		112	75 - 125
Arsenic	100	113		ug/L		113	75 - 125
Barium	100	116		ug/L		116	75 - 125
Beryllium	50.0	55.1		ug/L		110	75 - 125
Cadmium	50.0	54.1		ug/L		108	75 - 125
Chromium	100	112		ug/L		112	75 - 125
Cobalt	50.0	55.0		ug/L		110	75 - 125
Copper	100	108		ug/L		108	75 - 125
Iron	5000	5850		ug/L		117	75 - 125
Lead	50.0	53.9		ug/L		108	75 - 125
Nickel	100	108		ug/L		108	75 - 125
Selenium	100	113		ug/L		113	75 - 125
Sodium	5.00	5.85		mg/L		117	75 - 125
Silver	50.0	54.1		ug/L		108	75 - 125
Thallium	40.0	43.9		ug/L		110	75 - 125
Vanadium	100	111		ug/L		111	75 - 125
Zinc	100	113		ug/L		113	75 - 125

Lab Sample ID: 640-47048-5 MS
Matrix: Water
Analysis Batch: 318646

Client Sample ID: MWB-29(S)c
Prep Type: Total Recoverable
Prep Batch: 318360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	61.7		ug/L		123	75 - 125
Arsenic	1.3	U	100	128	J	ug/L		128	75 - 125

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: 640-47048-5 MS

Matrix: Water

Analysis Batch: 318646

Client Sample ID: MWB-29(S)c

Prep Type: Total Recoverable

Prep Batch: 318360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	24		100	157	J	ug/L		133	75 - 125
Beryllium	0.25	U	50.0	61.2		ug/L		122	75 - 125
Cadmium	0.095	U	50.0	60.1		ug/L		120	75 - 125
Chromium	2.5	U	100	125		ug/L		125	75 - 125
Cobalt	0.23	I	50.0	59.2		ug/L		118	75 - 125
Copper	1.1	U	100	120		ug/L		120	75 - 125
Iron	650		5000	6980	J	ug/L		127	75 - 125
Lead	0.20	U	50.0	61.2		ug/L		122	75 - 125
Nickel	2.0	U	100	121		ug/L		121	75 - 125
Selenium	1.0	U	100	120		ug/L		120	75 - 125
Sodium	8.7		5.00	14.7		mg/L		120	75 - 125
Silver	0.25	U	50.0	59.9		ug/L		120	75 - 125
Thallium	0.50	U	40.0	49.3		ug/L		123	75 - 125
Vanadium	3.8	U	100	125		ug/L		125	75 - 125
Zinc	8.3	U	100	120		ug/L		120	75 - 125

Lab Sample ID: 640-47048-5 MSD

Matrix: Water

Analysis Batch: 318646

Client Sample ID: MWB-29(S)c

Prep Type: Total Recoverable

Prep Batch: 318360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3	U	50.0	58.7		ug/L		117	75 - 125	5	20
Arsenic	1.3	U	100	116		ug/L		116	75 - 125	10	20
Barium	24		100	146		ug/L		122	75 - 125	7	20
Beryllium	0.25	U	50.0	56.4		ug/L		113	75 - 125	8	20
Cadmium	0.095	U	50.0	56.6		ug/L		113	75 - 125	6	20
Chromium	2.5	U	100	114		ug/L		114	75 - 125	9	20
Cobalt	0.23	I	50.0	55.7		ug/L		111	75 - 125	6	20
Copper	1.1	U	100	110		ug/L		110	75 - 125	9	20
Iron	650		5000	6520		ug/L		117	75 - 125	7	20
Lead	0.20	U	50.0	57.5		ug/L		115	75 - 125	6	20
Nickel	2.0	U	100	111		ug/L		111	75 - 125	9	20
Selenium	1.0	U	100	111		ug/L		111	75 - 125	8	20
Sodium	8.7		5.00	13.6		mg/L		99	75 - 125	7	20
Silver	0.25	U	50.0	56.3		ug/L		113	75 - 125	6	20
Thallium	0.50	U	40.0	46.6		ug/L		116	75 - 125	6	20
Vanadium	3.8	U	100	113		ug/L		113	75 - 125	9	20
Zinc	8.3	U	100	115		ug/L		115	75 - 125	4	20

Lab Sample ID: MB 680-318485/1-A

Matrix: Water

Analysis Batch: 318737

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/06/14 10:29	03/07/14 05:34	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/06/14 10:29	03/07/14 05:34	1
Barium	1.3	U	5.0	1.3	ug/L		03/06/14 10:29	03/07/14 05:34	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/06/14 10:29	03/07/14 05:34	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/06/14 10:29	03/07/14 05:34	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-318485/1-A

Matrix: Water

Analysis Batch: 318737

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	2.5	U	5.0	2.5	ug/L		03/06/14 10:29	03/07/14 05:34	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/06/14 10:29	03/07/14 05:34	1
Copper	1.1	U	5.0	1.1	ug/L		03/06/14 10:29	03/07/14 05:34	1
Iron	33	U	100	33	ug/L		03/06/14 10:29	03/07/14 05:34	1
Lead	0.20	U	1.5	0.20	ug/L		03/06/14 10:29	03/07/14 05:34	1
Nickel	2.0	U	5.0	2.0	ug/L		03/06/14 10:29	03/07/14 05:34	1
Selenium	1.0	U	2.5	1.0	ug/L		03/06/14 10:29	03/07/14 05:34	1
Sodium	0.25	U	0.50	0.25	mg/L		03/06/14 10:29	03/07/14 05:34	1
Silver	0.25	U	1.0	0.25	ug/L		03/06/14 10:29	03/07/14 05:34	1
Thallium	0.50	U	1.0	0.50	ug/L		03/06/14 10:29	03/07/14 05:34	1
Vanadium	3.8	U	10	3.8	ug/L		03/06/14 10:29	03/07/14 05:34	1
Zinc	8.3	U	20	8.3	ug/L		03/06/14 10:29	03/07/14 05:34	1

Lab Sample ID: LCS 680-318485/2-A

Matrix: Water

Analysis Batch: 318737

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.0		ug/L		100	75 - 125
Arsenic	100	106		ug/L		106	75 - 125
Barium	100	103		ug/L		103	75 - 125
Beryllium	50.0	52.2		ug/L		104	75 - 125
Cadmium	50.0	50.3		ug/L		101	75 - 125
Chromium	100	105		ug/L		105	75 - 125
Cobalt	50.0	50.7		ug/L		101	75 - 125
Copper	100	107		ug/L		107	75 - 125
Iron	5000	5230		ug/L		105	75 - 125
Lead	50.0	50.5		ug/L		101	75 - 125
Nickel	100	107		ug/L		107	75 - 125
Selenium	100	106		ug/L		106	75 - 125
Sodium	5.00	5.18		mg/L		104	75 - 125
Silver	50.0	52.6		ug/L		105	75 - 125
Thallium	40.0	39.6		ug/L		99	75 - 125
Vanadium	100	104		ug/L		104	75 - 125
Zinc	100	106		ug/L		106	75 - 125

Lab Sample ID: 640-47063-1 MS

Matrix: Water

Analysis Batch: 318737

Client Sample ID: MWB-3(I)b

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	50.6		ug/L		101	75 - 125
Arsenic	1.3	U	100	107		ug/L		107	75 - 125
Barium	27		100	129		ug/L		102	75 - 125
Beryllium	0.25	U	50.0	52.5		ug/L		105	75 - 125
Cadmium	0.095	U	50.0	50.4		ug/L		101	75 - 125
Chromium	2.5	U	100	107		ug/L		107	75 - 125
Cobalt	0.15	U	50.0	50.8		ug/L		102	75 - 125
Copper	1.1	U	100	108		ug/L		108	75 - 125

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: 640-47063-1 MS

Matrix: Water

Analysis Batch: 318737

Client Sample ID: MWB-3(I)b

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	820		5000	6400		ug/L		111	75 - 125
Lead	0.20	U	50.0	50.8		ug/L		102	75 - 125
Nickel	2.0	U	100	110		ug/L		110	75 - 125
Selenium	1.0	U	100	109		ug/L		109	75 - 125
Sodium	3.8		5.00	9.48		mg/L		113	75 - 125
Silver	0.25	U	50.0	52.7		ug/L		105	75 - 125
Thallium	0.50	U	40.0	40.1		ug/L		100	75 - 125
Vanadium	3.8	U	100	106		ug/L		106	75 - 125
Zinc	8.3	U	100	109		ug/L		109	75 - 125

Lab Sample ID: 640-47063-1 MSD

Matrix: Water

Analysis Batch: 318737

Client Sample ID: MWB-3(I)b

Prep Type: Total Recoverable

Prep Batch: 318485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	2.3	U	50.0	52.5		ug/L		105	75 - 125	4	20
Arsenic	1.3	U	100	114		ug/L		114	75 - 125	6	20
Barium	27		100	136		ug/L		109	75 - 125	5	20
Beryllium	0.25	U	50.0	55.4		ug/L		111	75 - 125	5	20
Cadmium	0.095	U	50.0	52.1		ug/L		104	75 - 125	3	20
Chromium	2.5	U	100	114		ug/L		114	75 - 125	6	20
Cobalt	0.15	U	50.0	53.1		ug/L		106	75 - 125	4	20
Copper	1.1	U	100	116		ug/L		116	75 - 125	7	20
Iron	820		5000	6730		ug/L		118	75 - 125	5	20
Lead	0.20	U	50.0	52.9		ug/L		106	75 - 125	4	20
Nickel	2.0	U	100	115		ug/L		115	75 - 125	5	20
Selenium	1.0	U	100	114		ug/L		114	75 - 125	5	20
Sodium	3.8		5.00	9.76		mg/L		119	75 - 125	3	20
Silver	0.25	U	50.0	53.5		ug/L		107	75 - 125	2	20
Thallium	0.50	U	40.0	41.8		ug/L		104	75 - 125	4	20
Vanadium	3.8	U	100	113		ug/L		113	75 - 125	6	20
Zinc	8.3	U	100	113		ug/L		113	75 - 125	4	20

Lab Sample ID: MB 680-318849/1-A

Matrix: Water

Analysis Batch: 319150

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 318849

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Antimony	2.3	U	5.0	2.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Barium	1.3	U	5.0	1.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Barium	1.3	U	5.0	1.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:05	03/10/14 18:04	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:05	03/10/14 18:04	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 18:04	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: MB 680-318849/1-A

Matrix: Water

Analysis Batch: 319150

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 318849

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:05	03/10/14 18:04	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:05	03/10/14 18:04	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Iron	33	U	100	33	ug/L		03/10/14 09:05	03/10/14 18:04	1
Iron	33	U	100	33	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 18:04	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 18:04	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 18:04	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:05	03/10/14 18:04	1
Sodium	250	U	500	250	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 18:04	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 18:04	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:05	03/10/14 18:04	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:05	03/10/14 18:04	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 18:04	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:05	03/10/14 18:04	1

Lab Sample ID: LCS 680-318849/2-A

Matrix: Water

Analysis Batch: 319150

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 318849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	54.2		ug/L		108	75 - 125
Dissolved Antimony	50.0	54.2		ug/L		108	75 - 125
Arsenic	100	110		ug/L		110	75 - 125
Dissolved Arsenic	100	110		ug/L		110	75 - 125
Barium	100	110		ug/L		110	75 - 125
Dissolved Barium	100	110		ug/L		110	75 - 125
Beryllium	50.0	53.7		ug/L		107	75 - 125
Dissolved Beryllium	50.0	53.7		ug/L		107	75 - 125
Cadmium	50.0	52.5		ug/L		105	75 - 125
Dissolved Cadmium	50.0	52.5		ug/L		105	75 - 125
Calcium	5.00	5.59		mg/L		112	75 - 125
Chromium	100	108		ug/L		108	75 - 125
Dissolved Chromium	100	108		ug/L		108	75 - 125
Cobalt	50.0	53.7		ug/L		107	75 - 125
Dissolved Cobalt	50.0	53.7		ug/L		107	75 - 125
Copper	100	109		ug/L		109	75 - 125
Dissolved Copper	100	109		ug/L		109	75 - 125
Dissolved Iron	5000	5510		ug/L		110	75 - 125
Iron	5000	5510		ug/L		110	75 - 125
Dissolved Lead	50.0	53.5		ug/L		107	75 - 125

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-318849/2-A

Matrix: Water

Analysis Batch: 319150

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 318849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	53.5		ug/L		107	75 - 125
Magnesium	5.00	5.42		mg/L		108	75 - 125
Dissolved Nickel	100	109		ug/L		109	75 - 125
Nickel	100	109		ug/L		109	75 - 125
Dissolved Selenium	100	111		ug/L		111	75 - 125
Selenium	100	111		ug/L		111	75 - 125
Sodium	5000	5360		ug/L		107	75 - 125
Dissolved Silver	50.0	56.0		ug/L		112	75 - 125
Silver	50.0	56.0		ug/L		112	75 - 125
Dissolved Thallium	40.0	41.6		ug/L		104	75 - 125
Thallium	40.0	41.6		ug/L		104	75 - 125
Dissolved Vanadium	100	106		ug/L		106	75 - 125
Vanadium	100	106		ug/L		106	75 - 125
Dissolved Zinc	100	108		ug/L		108	75 - 125
Zinc	100	108		ug/L		108	75 - 125

Lab Sample ID: MB 680-318856/1-A

Matrix: Water

Analysis Batch: 319337

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 318856

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/10/14 09:32	03/11/14 16:24	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/10/14 09:32	03/11/14 16:24	1
Barium	1.3	U	5.0	1.3	ug/L		03/10/14 09:32	03/11/14 16:24	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/10/14 09:32	03/11/14 16:24	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/10/14 09:32	03/11/14 16:24	1
Chromium	2.5	U	5.0	2.5	ug/L		03/10/14 09:32	03/11/14 16:24	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/10/14 09:32	03/11/14 16:24	1
Copper	1.1	U	5.0	1.1	ug/L		03/10/14 09:32	03/11/14 16:24	1
Iron	33	U	100	33	ug/L		03/10/14 09:32	03/11/14 16:24	1
Lead	0.20	U	1.5	0.20	ug/L		03/10/14 09:32	03/11/14 16:24	1
Nickel	2.0	U	5.0	2.0	ug/L		03/10/14 09:32	03/11/14 16:24	1
Selenium	1.0	U	2.5	1.0	ug/L		03/10/14 09:32	03/11/14 16:24	1
Sodium	0.25	U	0.50	0.25	mg/L		03/10/14 09:32	03/11/14 16:24	1
Silver	0.25	U	1.0	0.25	ug/L		03/10/14 09:32	03/11/14 16:24	1
Thallium	0.50	U	1.0	0.50	ug/L		03/10/14 09:32	03/11/14 16:24	1
Vanadium	3.8	U	10	3.8	ug/L		03/10/14 09:32	03/11/14 16:24	1
Zinc	8.3	U	20	8.3	ug/L		03/10/14 09:32	03/11/14 16:24	1

Lab Sample ID: LCS 680-318856/2-A

Matrix: Water

Analysis Batch: 319337

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 318856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	56.5		ug/L		113	75 - 125
Arsenic	100	116		ug/L		116	75 - 125
Barium	100	116		ug/L		116	75 - 125
Beryllium	50.0	53.4		ug/L		107	75 - 125
Cadmium	50.0	58.2		ug/L		116	75 - 125

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

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

Lab Sample ID: LCS 680-318856/2-A

Matrix: Water

Analysis Batch: 319337

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 318856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	114		ug/L		114	75 - 125
Cobalt	50.0	53.9		ug/L		108	75 - 125
Copper	100	117		ug/L		117	75 - 125
Iron	5000	5750		ug/L		115	75 - 125
Lead	50.0	56.6		ug/L		113	75 - 125
Nickel	100	119		ug/L		119	75 - 125
Selenium	100	120		ug/L		120	75 - 125
Sodium	5.00	5.67		mg/L		113	75 - 125
Silver	50.0	58.5		ug/L		117	75 - 125
Thallium	40.0	45.0		ug/L		112	75 - 125
Vanadium	100	113		ug/L		113	75 - 125
Zinc	100	116		ug/L		116	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-318391/1-A

Matrix: Water

Analysis Batch: 318689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318391

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/14 14:51	03/06/14 14:35	1

Lab Sample ID: LCS 680-318391/2-A

Matrix: Water

Analysis Batch: 318689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.55		ug/L		102	80 - 120

Lab Sample ID: MB 680-318647/13-A

Matrix: Water

Analysis Batch: 318961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318647

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/07/14 09:44	03/10/14 10:12	1

Lab Sample ID: LCS 680-318647/14-A

Matrix: Water

Analysis Batch: 318961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.46		ug/L		98	80 - 120

Lab Sample ID: 640-47063-3 MS

Matrix: Water

Analysis Batch: 318961

Client Sample ID: MWB-31(D)b

Prep Type: Total/NA

Prep Batch: 318647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	0.984		ug/L		98	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 640-47063-3 MSD

Matrix: Water

Analysis Batch: 318961

Client Sample ID: MWB-31(D)b

Prep Type: Total/NA

Prep Batch: 318647

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	0.756	J	ug/L		76	80 - 120	26	20

Lab Sample ID: MB 680-318949/1-A

Matrix: Water

Analysis Batch: 319171

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318949

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/10/14 13:16	03/10/14 18:13	1

Lab Sample ID: LCS 680-318949/2-A

Matrix: Water

Analysis Batch: 319171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.74		ug/L		110	80 - 120

Lab Sample ID: MB 680-318968/1-A

Matrix: Water

Analysis Batch: 319210

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 318968

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/10/14 14:45	03/11/14 14:10	1

Lab Sample ID: LCS 680-318968/2-A

Matrix: Water

Analysis Batch: 319210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 318968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.34		ug/L		93	80 - 120

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

Lab Sample ID: MB 680-320449/1

Matrix: Water

Analysis Batch: 320449

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3.3	U	3.3	3.3	mg/L			03/10/14 18:04	1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-318700/1

Matrix: Water

Analysis Batch: 318700

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			03/07/14 12:17	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C (Continued)

Lab Sample ID: LCS 680-318700/2

Matrix: Water

Analysis Batch: 318700

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	100	98.0		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-318700/3

Matrix: Water

Analysis Batch: 318700

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	100	101		mg/L		101	80 - 120	3	25

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-319097/1

Matrix: Water

Analysis Batch: 319097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/11/14 11:25	1

Lab Sample ID: LCS 680-319097/2

Matrix: Water

Analysis Batch: 319097

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	111		mg/L		102	80 - 120

Lab Sample ID: LCSD 680-319097/3

Matrix: Water

Analysis Batch: 319097

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	119		mg/L		109	80 - 120	7	25

Lab Sample ID: 640-47048-8 DU

Matrix: Water

Analysis Batch: 319097

Client Sample ID: MWB-13(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		334		mg/L		11	25

Lab Sample ID: 640-47048-10 DU

Matrix: Water

Analysis Batch: 319097

Client Sample ID: MWB-22(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	230		226		mg/L		3	25

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: MB 680-319125/1

Matrix: Water

Analysis Batch: 319125

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L	-		03/11/14 12:21	1

Lab Sample ID: LCS 680-319125/2

Matrix: Water

Analysis Batch: 319125

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	95.0		mg/L	-	87	80 - 120

Lab Sample ID: LCSD 680-319125/3

Matrix: Water

Analysis Batch: 319125

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	97.0		mg/L	-	89	80 - 120	2	25

Lab Sample ID: MB 680-319349/1

Matrix: Water

Analysis Batch: 319349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L	-		03/12/14 14:27	1

Lab Sample ID: LCS 680-319349/2

Matrix: Water

Analysis Batch: 319349

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	115		mg/L	-	106	80 - 120

Lab Sample ID: LCSD 680-319349/3

Matrix: Water

Analysis Batch: 319349

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	95.0		mg/L	-	87	80 - 120	19	25

Lab Sample ID: 640-47063-3 DU

Matrix: Water

Analysis Batch: 319349

Client Sample ID: MWB-31(D)b

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	180		204		mg/L	-	11	25

Lab Sample ID: 640-47063-12 DU

Matrix: Water

Analysis Batch: 319349

Client Sample ID: MWB-7(D)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		178		mg/L	-	9	25

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Lab Sample ID: MB 680-319350/1
Matrix: Water
Analysis Batch: 319350

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/12/14 14:36	1

Lab Sample ID: LCS 680-319350/2
Matrix: Water
Analysis Batch: 319350

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	95.0		mg/L		87	80 - 120

Lab Sample ID: LCSD 680-319350/3
Matrix: Water
Analysis Batch: 319350

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	115		mg/L		106	80 - 120	19	25

Lab Sample ID: MB 680-319431/1
Matrix: Water
Analysis Batch: 319431

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/13/14 09:23	1

Lab Sample ID: LCS 680-319431/2
Matrix: Water
Analysis Batch: 319431

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	101		mg/L		93	80 - 120

Lab Sample ID: 640-47090-4 DU
Matrix: Water
Analysis Batch: 319431

Client Sample ID: Field Blank 01 47090
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5.0	U	5.0	U	mg/L		NC	25

Lab Sample ID: MB 680-319457/1
Matrix: Water
Analysis Batch: 319457

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/13/14 10:46	1

Lab Sample ID: LCS 680-319457/2
Matrix: Water
Analysis Batch: 319457

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

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-320075/21

Matrix: Water

Analysis Batch: 320075

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	-		03/17/14 17:07	1

Lab Sample ID: LCS 680-320075/36

Matrix: Water

Analysis Batch: 320075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.04		mg/L	-	104	90 - 110

Lab Sample ID: 640-47048-13 MS

Matrix: Water

Analysis Batch: 320075

Client Sample ID: MWB-17(I)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.045	I	1.00	1.17	J	mg/L	-	112	90 - 110

Lab Sample ID: 640-47048-13 MSD

Matrix: Water

Analysis Batch: 320075

Client Sample ID: MWB-17(I)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.045	I	1.00	1.17	J	mg/L	-	112	90 - 110	0	30

Lab Sample ID: 640-47048-14 DU

Matrix: Water

Analysis Batch: 320075

Client Sample ID: MWB-17(D)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.087		0.0776		mg/L	-	11	30

Lab Sample ID: MB 680-320076/47

Matrix: Water

Analysis Batch: 320076

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	-		03/18/14 09:21	1

Lab Sample ID: LCS 680-320076/34

Matrix: Water

Analysis Batch: 320076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.02		mg/L	-	102	90 - 110

Lab Sample ID: MB 680-320339/35

Matrix: Water

Analysis Batch: 320339

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	-		03/19/14 10:47	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Lab Sample ID: LCS 680-320339/28

Matrix: Water

Analysis Batch: 320339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 640-47048-2 MS

Matrix: Water

Analysis Batch: 320339

Client Sample ID: MWB-32(I) d

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.086		1.00	1.05		mg/L		96	90 - 110

Lab Sample ID: 640-47048-2 MSD

Matrix: Water

Analysis Batch: 320339

Client Sample ID: MWB-32(I) d

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)	0.086		1.00	1.07		mg/L		99	90 - 110	2	30

Lab Sample ID: 640-47048-3 DU

Matrix: Water

Analysis Batch: 320339

Client Sample ID: MWB-32(D) d

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.18		0.172		mg/L		3	30

Lab Sample ID: MB 680-320340/22

Matrix: Water

Analysis Batch: 320340

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			03/18/14 18:45	1

Lab Sample ID: LCS 680-320340/9

Matrix: Water

Analysis Batch: 320340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.01		mg/L		101	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-318363/13

Matrix: Water

Analysis Batch: 318363

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/05/14 12:41	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-318363/14

Matrix: Water

Analysis Batch: 318363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.963		mg/L		96	90 - 110
Nitrite as N	0.500	0.503		mg/L		101	90 - 110

Lab Sample ID: 640-47048-1 MS

Matrix: Water

Analysis Batch: 318363

Client Sample ID: MWB-32(S)d

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.014		1.00	0.958		mg/L		94	90 - 110
Nitrite as N	0.013		0.500	0.513		mg/L		100	90 - 110

Lab Sample ID: 640-47048-1 MSD

Matrix: Water

Analysis Batch: 318363

Client Sample ID: MWB-32(S)d

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.014		1.00	0.958		mg/L		94	90 - 110	0	10
Nitrite as N	0.013		0.500	0.512		mg/L		100	90 - 110	0	10

Lab Sample ID: 640-47048-11 DU

Matrix: Water

Analysis Batch: 318363

Client Sample ID: MWB-21(S)c

Prep Type: Total/NA

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	10

Lab Sample ID: MB 680-318587/13

Matrix: Water

Analysis Batch: 318587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 16:37	1

Lab Sample ID: LCS 680-318587/14

Matrix: Water

Analysis Batch: 318587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110
Nitrite as N	0.500	0.506		mg/L		101	90 - 110

Lab Sample ID: 640-47063-3 DU

Matrix: Water

Analysis Batch: 318587

Client Sample ID: MWB-31(D)b

Prep Type: Total/NA

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	10

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 680-318588/14

Matrix: Water

Analysis Batch: 318588

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/06/14 17:16	1

Lab Sample ID: LCS 680-318588/13

Matrix: Water

Analysis Batch: 318588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.974		mg/L		97	90 - 110
Nitrite as N	0.500	0.510		mg/L		102	90 - 110

Lab Sample ID: 640-47063-13 MS

Matrix: Water

Analysis Batch: 318588

Client Sample ID: MWB-7(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.1		1.00	1.88	J	mg/L		75	90 - 110
Nitrite as N	0.014		0.500	0.515		mg/L		100	90 - 110

Lab Sample ID: 640-47063-13 MSD

Matrix: Water

Analysis Batch: 318588

Client Sample ID: MWB-7(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.1		1.00	1.88	J	mg/L		75	90 - 110	0	10
Nitrite as N	0.014		0.500	0.516		mg/L		100	90 - 110	0	10

Lab Sample ID: MB 680-318743/13

Matrix: Water

Analysis Batch: 318743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:19	1

Lab Sample ID: LCS 680-318743/14

Matrix: Water

Analysis Batch: 318743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110
Nitrite as N	0.500	0.505		mg/L		101	90 - 110

Lab Sample ID: 640-47090-9 MS

Matrix: Water

Analysis Batch: 318743

Client Sample ID: MWB-11(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.084		1.00	1.08		mg/L		100	90 - 110
Nitrite as N	0.010		0.500	0.502		mg/L		100	90 - 110

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 640-47090-9 MSD

Matrix: Water

Analysis Batch: 318743

Client Sample ID: MWB-11(S)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.084		1.00	1.07		mg/L		99	90 - 110	1	10
Nitrite as N	0.010		0.500	0.503		mg/L		101	90 - 110	0	10

Lab Sample ID: MB 680-318745/13

Matrix: Water

Analysis Batch: 318745

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:19	1
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/07/14 14:19	1

Lab Sample ID: LCS 680-318745/14

Matrix: Water

Analysis Batch: 318745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110
Nitrite as N	0.500	0.505		mg/L		101	90 - 110
Nitrite as N	0.500	0.505		mg/L		101	90 - 110

Lab Sample ID: 640-47090-7 MS

Matrix: Water

Analysis Batch: 318745

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.021		1.00	0.997		mg/L		98	90 - 110
Nitrate Nitrite as N	0.021		1.00	0.997		mg/L		98	90 - 110
Nitrite as N	0.010		0.500	0.503		mg/L		101	90 - 110
Nitrite as N	0.010		0.500	0.503		mg/L		101	90 - 110

Lab Sample ID: 640-47090-7 MSD

Matrix: Water

Analysis Batch: 318745

Client Sample ID: MWB-12(1)c

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.021		1.00	0.997		mg/L		98	90 - 110	0	10
Nitrate Nitrite as N	0.021		1.00	0.997		mg/L		98	90 - 110	0	10
Nitrite as N	0.010		0.500	0.505		mg/L		101	90 - 110	0	10
Nitrite as N	0.010		0.500	0.505		mg/L		101	90 - 110	0	10

Lab Sample ID: 640-47090-8 DU

Matrix: Water

Analysis Batch: 318745

Client Sample ID: MWB-12(D)c

Prep Type: Total/NA

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	10
Nitrate as N	0.010	U	0.010	U	mg/L		NC	10

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-319184/2-A
Matrix: Water
Analysis Batch: 319541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319184

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/11/14 15:30	03/13/14 11:25	1

Lab Sample ID: LCS 680-319184/1-A
Matrix: Water
Analysis Batch: 319541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.09		mg/L		104	60 - 140

Lab Sample ID: MB 680-319373/2-A
Matrix: Water
Analysis Batch: 319541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319373

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/12/14 16:00	03/13/14 13:05	1

Lab Sample ID: LCS 680-319373/1-A
Matrix: Water
Analysis Batch: 319541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.04		mg/L		102	60 - 140

Method: 4500 P F-2011 - Orthophosphate, Automated Ascorbic Acid Method

Lab Sample ID: MB 680-318733/11
Matrix: Water
Analysis Batch: 318733

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/07/14 12:05	1

Lab Sample ID: LCS 680-318733/1
Matrix: Water
Analysis Batch: 318733

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	1.20	1.23		mg/L		102	90 - 110

Lab Sample ID: 640-47084-1 MS
Matrix: Water
Analysis Batch: 318733

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
Orthophosphate	0.016	U	1.00	1.01		mg/L		101	90 - 110

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 4500 P F-2011 - Orthophosphate, Automated Ascorbic Acid Method (Continued)

Lab Sample ID: 640-47084-1 MSD

Matrix: Water

Analysis Batch: 318733

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
Orthophosphate	0.016	U	1.00	1.01		mg/L		101	90 - 110	0	30

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-318742/1

Matrix: Water

Analysis Batch: 318742

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/07/14 12:06	1

Lab Sample ID: LCS 680-318742/2

Matrix: Water

Analysis Batch: 318742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	177		mg/L		89	85 - 115

Lab Sample ID: LCSD 680-318742/3

Matrix: Water

Analysis Batch: 318742

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	187		mg/L		95	85 - 115	6	30

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-320062/2

Matrix: Water

Analysis Batch: 320062

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			03/17/14 13:34	1

Lab Sample ID: LCS 680-320062/5

Matrix: Water

Analysis Batch: 320062

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	19.1		mg/L		96	80 - 120

Lab Sample ID: LCSD 680-320062/6

Matrix: Water

Analysis Batch: 320062

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	18.9		mg/L		94	80 - 120	2	25

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47048-1

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 640-47084-1 MS

Matrix: Water

Analysis Batch: 320062

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	46		20.0	65.7		mg/L		96	80 - 120

Lab Sample ID: 640-47084-1 MSD

Matrix: Water

Analysis Batch: 320062

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	46		20.0	64.6		mg/L		91	80 - 120	2	25

Method: SM 5220D - COD

Lab Sample ID: MB 680-319557/3

Matrix: Water

Analysis Batch: 319557

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	5.0	U	10	5.0	mg/L			03/13/14 14:53	1

Lab Sample ID: LCS 680-319557/4

Matrix: Water

Analysis Batch: 319557

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	51.4		mg/L		103	90 - 110

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

GC/MS VOA

Analysis Batch: 318821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	8260B	
640-47048-2	MWB-32(I)d	Total/NA	Water	8260B	
640-47048-3	MWB-32(D)d	Total/NA	Water	8260B	
640-47048-4	MWB-33(S)d	Total/NA	Water	8260B	
640-47048-5	MWB-29(S)c	Total/NA	Water	8260B	
640-47048-6	MWB-29(I)c	Total/NA	Water	8260B	
640-47048-7	MWB-29(D)c	Total/NA	Water	8260B	
640-47048-8	MWB-13(S)c	Total/NA	Water	8260B	
640-47048-9	MWB-13(I)c	Total/NA	Water	8260B	
640-47048-10	MWB-22(S)c	Total/NA	Water	8260B	
640-47048-11	MWB-21(S)c	Total/NA	Water	8260B	
640-47048-12	MWB-17(S)c	Total/NA	Water	8260B	
640-47048-13	MWB-17(I)c	Total/NA	Water	8260B	
640-47048-14	MWB-17(D)c	Total/NA	Water	8260B	
640-47048-15	MWB-19(S)c	Total/NA	Water	8260B	
640-47048-16	MWB-19(I)c	Total/NA	Water	8260B	
640-47048-17	MWB-19(D)c	Total/NA	Water	8260B	
640-47048-18	MWB-20(S)c	Total/NA	Water	8260B	
640-47048-19	Trip Blank 01 47048	Total/NA	Water	8260B	
LCS 680-318821/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-318821/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-318821/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 319036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	8260B	
640-47063-2	MWB-3(S)b	Total/NA	Water	8260B	
640-47063-3	MWB-31(D)b	Total/NA	Water	8260B	
640-47063-4	MWB-2(S)b	Total/NA	Water	8260B	
640-47063-5	MWB-2(I)b	Total/NA	Water	8260B	
640-47063-6	MWB-34(S)d	Total/NA	Water	8260B	
640-47063-7	MWB-34(I)d	Total/NA	Water	8260B	
640-47063-8	MWB-34(D)d	Total/NA	Water	8260B	
LCS 680-319036/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-319036/7	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-319036/10	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 319041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-9	MWB-27(S)c	Total/NA	Water	8260B	
640-47063-10	MWB-27(I)c	Total/NA	Water	8260B	
640-47063-11	MWB-27(D)c	Total/NA	Water	8260B	
640-47063-12	MWB-7(D)c	Total/NA	Water	8260B	
640-47063-13	MWB-7(1)c	Total/NA	Water	8260B	
640-47063-15	Trip Blank 02 47063	Total/NA	Water	8260B	
LCS 680-319041/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-319041/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-319041/8	Method Blank	Total/NA	Water	8260B	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

GC/MS VOA (Continued)

Analysis Batch: 319225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	8260B	
640-47084-2	SW-2	Total/NA	Water	8260B	
640-47084-3	SW-3	Total/NA	Water	8260B	
640-47084-4	Trip Blank 03 47084	Total/NA	Water	8260B	
640-47090-6	MWB-12(S)c	Total/NA	Water	8260B	
640-47090-7	MWB-12(1)c	Total/NA	Water	8260B	
640-47090-8	MWB-12(D)c	Total/NA	Water	8260B	
640-47090-9	MWB-11(S)c	Total/NA	Water	8260B	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	8260B	
640-47090-11	Trip Blank 04 47090	Total/NA	Water	8260B	
LCS 680-319225/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-319225/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-319225/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 319228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-14	MWB-7(S)c	Total/NA	Water	8260B	
LCS 680-319228/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-319228/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-319228/8	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 318951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	8011	
640-47048-1 MS	MWB-32(S)d	Total/NA	Water	8011	
640-47048-1 MSD	MWB-32(S)d	Total/NA	Water	8011	
640-47048-2	MWB-32(I)d	Total/NA	Water	8011	
640-47048-2 MS	MWB-32(I)d	Total/NA	Water	8011	
640-47048-3	MWB-32(D)d	Total/NA	Water	8011	
640-47048-4	MWB-33(S)d	Total/NA	Water	8011	
640-47048-5	MWB-29(S)c	Total/NA	Water	8011	
640-47048-6	MWB-29(I)c	Total/NA	Water	8011	
640-47048-7	MWB-29(D)c	Total/NA	Water	8011	
640-47048-8	MWB-13(S)c	Total/NA	Water	8011	
640-47048-9	MWB-13(I)c	Total/NA	Water	8011	
640-47048-10	MWB-22(S)c	Total/NA	Water	8011	
640-47048-11	MWB-21(S)c	Total/NA	Water	8011	
640-47048-12	MWB-17(S)c	Total/NA	Water	8011	
640-47048-13	MWB-17(I)c	Total/NA	Water	8011	
640-47048-14	MWB-17(D)c	Total/NA	Water	8011	
640-47048-15	MWB-19(S)c	Total/NA	Water	8011	
640-47048-16	MWB-19(I)c	Total/NA	Water	8011	
640-47048-17	MWB-19(D)c	Total/NA	Water	8011	
640-47048-18	MWB-20(S)c	Total/NA	Water	8011	
LCS 680-318951/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-318951/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-318951/10-A	Method Blank	Total/NA	Water	8011	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

GC Semi VOA (Continued)

Prep Batch: 318954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	8011	
640-47063-1 MS	MWB-3(I)b	Total/NA	Water	8011	
640-47063-2	MWB-3(S)b	Total/NA	Water	8011	
640-47063-3	MWB-31(D)b	Total/NA	Water	8011	
640-47063-4	MWB-2(S)b	Total/NA	Water	8011	
640-47063-5	MWB-2(I)b	Total/NA	Water	8011	
640-47063-6	MWB-34(S)d	Total/NA	Water	8011	
640-47063-7	MWB-34(I)d	Total/NA	Water	8011	
640-47063-8	MWB-34(D)d	Total/NA	Water	8011	
640-47063-9	MWB-27(S)c	Total/NA	Water	8011	
640-47063-10	MWB-27(I)c	Total/NA	Water	8011	
640-47063-11	MWB-27(D)c	Total/NA	Water	8011	
640-47063-12	MWB-7(D)c	Total/NA	Water	8011	
640-47063-13	MWB-7(1)c	Total/NA	Water	8011	
640-47063-14	MWB-7(S)c	Total/NA	Water	8011	
LCS 680-318954/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-318954/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-318954/3-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 318974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	8011	318951
640-47048-1 MS	MWB-32(S)d	Total/NA	Water	8011	318951
640-47048-1 MSD	MWB-32(S)d	Total/NA	Water	8011	318951
640-47048-2	MWB-32(I)d	Total/NA	Water	8011	318951
640-47048-2 MS	MWB-32(I)d	Total/NA	Water	8011	318951
640-47048-3	MWB-32(D)d	Total/NA	Water	8011	318951
640-47048-4	MWB-33(S)d	Total/NA	Water	8011	318951
640-47048-5	MWB-29(S)c	Total/NA	Water	8011	318951
640-47048-6	MWB-29(I)c	Total/NA	Water	8011	318951
640-47048-7	MWB-29(D)c	Total/NA	Water	8011	318951
640-47048-8	MWB-13(S)c	Total/NA	Water	8011	318951
640-47048-9	MWB-13(I)c	Total/NA	Water	8011	318951
640-47048-10	MWB-22(S)c	Total/NA	Water	8011	318951
640-47048-11	MWB-21(S)c	Total/NA	Water	8011	318951
640-47048-12	MWB-17(S)c	Total/NA	Water	8011	318951
640-47048-13	MWB-17(I)c	Total/NA	Water	8011	318951
640-47048-14	MWB-17(D)c	Total/NA	Water	8011	318951
640-47048-15	MWB-19(S)c	Total/NA	Water	8011	318951
640-47048-16	MWB-19(I)c	Total/NA	Water	8011	318951
640-47048-17	MWB-19(D)c	Total/NA	Water	8011	318951
640-47048-18	MWB-20(S)c	Total/NA	Water	8011	318951
LCS 680-318951/11-A	Lab Control Sample	Total/NA	Water	8011	318951
LCSD 680-318951/12-A	Lab Control Sample Dup	Total/NA	Water	8011	318951
MB 680-318951/10-A	Method Blank	Total/NA	Water	8011	318951

Analysis Batch: 318975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	8011	318954
640-47063-1 MS	MWB-3(I)b	Total/NA	Water	8011	318954
640-47063-2	MWB-3(S)b	Total/NA	Water	8011	318954

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

GC Semi VOA (Continued)

Analysis Batch: 318975 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-3	MWB-31(D)b	Total/NA	Water	8011	318954
640-47063-4	MWB-2(S)b	Total/NA	Water	8011	318954
640-47063-5	MWB-2(l)b	Total/NA	Water	8011	318954
640-47063-6	MWB-34(S)d	Total/NA	Water	8011	318954
640-47063-7	MWB-34(l)d	Total/NA	Water	8011	318954
640-47063-8	MWB-34(D)d	Total/NA	Water	8011	318954
640-47063-9	MWB-27(S)c	Total/NA	Water	8011	318954
640-47063-10	MWB-27(l)c	Total/NA	Water	8011	318954
640-47063-11	MWB-27(D)c	Total/NA	Water	8011	318954
640-47063-12	MWB-7(D)c	Total/NA	Water	8011	318954
640-47063-13	MWB-7(1)c	Total/NA	Water	8011	318954
640-47063-14	MWB-7(S)c	Total/NA	Water	8011	318954
LCS 680-318954/4-A	Lab Control Sample	Total/NA	Water	8011	318954
LCSD 680-318954/5-A	Lab Control Sample Dup	Total/NA	Water	8011	318954
MB 680-318954/3-A	Method Blank	Total/NA	Water	8011	318954

Prep Batch: 319170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	8011	
640-47084-2	SW-2	Total/NA	Water	8011	
640-47084-3	SW-3	Total/NA	Water	8011	
640-47090-6	MWB-12(S)c	Total/NA	Water	8011	
640-47090-7	MWB-12(1)c	Total/NA	Water	8011	
640-47090-7 MS	MWB-12(1)c	Total/NA	Water	8011	
640-47090-7 MSD	MWB-12(1)c	Total/NA	Water	8011	
640-47090-8	MWB-12(D)c	Total/NA	Water	8011	
640-47090-8 MS	MWB-12(D)c	Total/NA	Water	8011	
640-47090-9	MWB-11(S)c	Total/NA	Water	8011	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	8011	
LCS 680-319170/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-319170/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-319170/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 319197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	8011	319170
640-47084-2	SW-2	Total/NA	Water	8011	319170
640-47084-3	SW-3	Total/NA	Water	8011	319170
640-47090-6	MWB-12(S)c	Total/NA	Water	8011	319170
640-47090-7	MWB-12(1)c	Total/NA	Water	8011	319170
640-47090-7 MS	MWB-12(1)c	Total/NA	Water	8011	319170
640-47090-7 MSD	MWB-12(1)c	Total/NA	Water	8011	319170
640-47090-8	MWB-12(D)c	Total/NA	Water	8011	319170
640-47090-8 MS	MWB-12(D)c	Total/NA	Water	8011	319170
640-47090-9	MWB-11(S)c	Total/NA	Water	8011	319170
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	8011	319170
LCS 680-319170/11-A	Lab Control Sample	Total/NA	Water	8011	319170
LCSD 680-319170/12-A	Lab Control Sample Dup	Total/NA	Water	8011	319170
MB 680-319170/10-A	Method Blank	Total/NA	Water	8011	319170

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

HPLC/IC

Analysis Batch: 319354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	300.0	
640-47048-2	MWB-32(I)d	Total/NA	Water	300.0	
640-47048-3	MWB-32(D)d	Total/NA	Water	300.0	
640-47048-4	MWB-33(S)d	Total/NA	Water	300.0	
640-47048-5	MWB-29(S)c	Total/NA	Water	300.0	
640-47048-6	MWB-29(I)c	Total/NA	Water	300.0	
640-47048-7	MWB-29(D)c	Total/NA	Water	300.0	
640-47048-8	MWB-13(S)c	Total/NA	Water	300.0	
640-47048-8 MS	MWB-13(S)c	Total/NA	Water	300.0	
640-47048-8 MSD	MWB-13(S)c	Total/NA	Water	300.0	
640-47048-9	MWB-13(I)c	Total/NA	Water	300.0	
640-47048-10	MWB-22(S)c	Total/NA	Water	300.0	
640-47048-11	MWB-21(S)c	Total/NA	Water	300.0	
640-47048-12	MWB-17(S)c	Total/NA	Water	300.0	
640-47048-13	MWB-17(I)c	Total/NA	Water	300.0	
640-47048-14	MWB-17(D)c	Total/NA	Water	300.0	
640-47048-15	MWB-19(S)c	Total/NA	Water	300.0	
640-47048-16	MWB-19(I)c	Total/NA	Water	300.0	
640-47048-16 MS	MWB-19(I)c	Total/NA	Water	300.0	
640-47048-16 MSD	MWB-19(I)c	Total/NA	Water	300.0	
640-47048-17	MWB-19(D)c	Total/NA	Water	300.0	
640-47048-18	MWB-20(S)c	Total/NA	Water	300.0	
LCS 680-319354/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-319354/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-319354/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 319563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-13	MWB-7(1)c	Total/NA	Water	300.0	
640-47063-13 MS	MWB-7(1)c	Total/NA	Water	300.0	
640-47063-13 MSD	MWB-7(1)c	Total/NA	Water	300.0	
640-47063-14	MWB-7(S)c	Total/NA	Water	300.0	
640-47063-14 MS	MWB-7(S)c	Total/NA	Water	300.0	
640-47063-14 MSD	MWB-7(S)c	Total/NA	Water	300.0	
LCS 680-319563/33	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-319563/34	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-319563/32	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 319688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-4	Field Blank 01 47090	Total/NA	Water	300.0	
640-47090-5	Field Blank 02 47090	Total/NA	Water	300.0	
640-47090-6	MWB-12(S)c	Total/NA	Water	300.0	
640-47090-7	MWB-12(1)c	Total/NA	Water	300.0	
640-47090-7 MS	MWB-12(1)c	Total/NA	Water	300.0	
640-47090-7 MSD	MWB-12(1)c	Total/NA	Water	300.0	
640-47090-8	MWB-12(D)c	Total/NA	Water	300.0	
640-47090-9	MWB-11(S)c	Total/NA	Water	300.0	
LCS 680-319688/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-319688/46	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-319688/44	Method Blank	Total/NA	Water	300.0	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

HPLC/IC (Continued)

Analysis Batch: 320097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	300.0	
640-47063-1 MS	MWB-3(I)b	Total/NA	Water	300.0	
640-47063-1 MSD	MWB-3(I)b	Total/NA	Water	300.0	
640-47063-2	MWB-3(S)b	Total/NA	Water	300.0	
640-47063-3	MWB-31(D)b	Total/NA	Water	300.0	
640-47063-4	MWB-2(S)b	Total/NA	Water	300.0	
640-47063-5	MWB-2(I)b	Total/NA	Water	300.0	
640-47063-6	MWB-34(S)d	Total/NA	Water	300.0	
640-47063-7	MWB-34(I)d	Total/NA	Water	300.0	
640-47063-8	MWB-34(D)d	Total/NA	Water	300.0	
640-47063-9	MWB-27(S)c	Total/NA	Water	300.0	
640-47063-10	MWB-27(I)c	Total/NA	Water	300.0	
640-47063-11	MWB-27(D)c	Total/NA	Water	300.0	
640-47063-12 MS	MWB-7(D)c	Total/NA	Water	300.0	
640-47063-12 MSD	MWB-7(D)c	Total/NA	Water	300.0	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	300.0	
LCS 680-320097/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-320097/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-320097/5	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 210476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	1631E	
640-47084-2	SW-2	Total/NA	Water	1631E	
640-47084-3	SW-3	Total/NA	Water	1631E	
LCS 400-210476/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-210476/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-210476/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 210584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	1631E	210476
640-47084-2	SW-2	Total/NA	Water	1631E	210476
640-47084-3	SW-3	Total/NA	Water	1631E	210476
LCS 400-210476/2-A	Lab Control Sample	Total/NA	Water	1631E	210476
LCSD 400-210476/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	210476
MB 400-210476/1-A	Method Blank	Total/NA	Water	1631E	210476

Prep Batch: 318360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total Recoverable	Water	3005A	
640-47048-2	MWB-32(I)d	Total Recoverable	Water	3005A	
640-47048-3	MWB-32(D)d	Total Recoverable	Water	3005A	
640-47048-4	MWB-33(S)d	Total Recoverable	Water	3005A	
640-47048-5	MWB-29(S)c	Total Recoverable	Water	3005A	
640-47048-5 MS	MWB-29(S)c	Total Recoverable	Water	3005A	
640-47048-5 MSD	MWB-29(S)c	Total Recoverable	Water	3005A	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Metals (Continued)

Prep Batch: 318360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-6	MWB-29(I)c	Total Recoverable	Water	3005A	
640-47048-7	MWB-29(D)c	Total Recoverable	Water	3005A	
640-47048-8	MWB-13(S)c	Total Recoverable	Water	3005A	
640-47048-9	MWB-13(I)c	Total Recoverable	Water	3005A	
640-47048-10	MWB-22(S)c	Total Recoverable	Water	3005A	
640-47048-11	MWB-21(S)c	Total Recoverable	Water	3005A	
640-47048-12	MWB-17(S)c	Total Recoverable	Water	3005A	
640-47048-13	MWB-17(I)c	Total Recoverable	Water	3005A	
640-47048-14	MWB-17(D)c	Total Recoverable	Water	3005A	
640-47048-15	MWB-19(S)c	Total Recoverable	Water	3005A	
640-47048-16	MWB-19(I)c	Total Recoverable	Water	3005A	
640-47048-17	MWB-19(D)c	Total Recoverable	Water	3005A	
640-47048-18	MWB-20(S)c	Total Recoverable	Water	3005A	
LCS 680-318360/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-318360/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 318391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	7470A	
640-47048-2	MWB-32(I)d	Total/NA	Water	7470A	
640-47048-3	MWB-32(D)d	Total/NA	Water	7470A	
640-47048-4	MWB-33(S)d	Total/NA	Water	7470A	
640-47048-5	MWB-29(S)c	Total/NA	Water	7470A	
640-47048-6	MWB-29(I)c	Total/NA	Water	7470A	
640-47048-7	MWB-29(D)c	Total/NA	Water	7470A	
640-47048-8	MWB-13(S)c	Total/NA	Water	7470A	
640-47048-9	MWB-13(I)c	Total/NA	Water	7470A	
640-47048-10	MWB-22(S)c	Total/NA	Water	7470A	
640-47048-11	MWB-21(S)c	Total/NA	Water	7470A	
640-47048-12	MWB-17(S)c	Total/NA	Water	7470A	
640-47048-13	MWB-17(I)c	Total/NA	Water	7470A	
640-47048-14	MWB-17(D)c	Total/NA	Water	7470A	
640-47048-15	MWB-19(S)c	Total/NA	Water	7470A	
640-47048-16	MWB-19(I)c	Total/NA	Water	7470A	
640-47048-17	MWB-19(D)c	Total/NA	Water	7470A	
640-47048-18	MWB-20(S)c	Total/NA	Water	7470A	
LCS 680-318391/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-318391/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 318485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total Recoverable	Water	3005A	
640-47063-1 MS	MWB-3(I)b	Total Recoverable	Water	3005A	
640-47063-1 MSD	MWB-3(I)b	Total Recoverable	Water	3005A	
640-47063-2	MWB-3(S)b	Total Recoverable	Water	3005A	
640-47063-3	MWB-31(D)b	Total Recoverable	Water	3005A	
640-47063-4	MWB-2(S)b	Total Recoverable	Water	3005A	
640-47063-5	MWB-2(I)b	Total Recoverable	Water	3005A	
640-47063-6	MWB-34(S)d	Total Recoverable	Water	3005A	
640-47063-7	MWB-34(I)d	Total Recoverable	Water	3005A	
640-47063-8	MWB-34(D)d	Total Recoverable	Water	3005A	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Metals (Continued)

Prep Batch: 318485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-9	MWB-27(S)c	Total Recoverable	Water	3005A	
640-47063-10	MWB-27(I)c	Total Recoverable	Water	3005A	
640-47063-11	MWB-27(D)c	Total Recoverable	Water	3005A	
640-47063-12	MWB-7(D)c	Total Recoverable	Water	3005A	
640-47063-13	MWB-7(1)c	Total Recoverable	Water	3005A	
640-47063-14	MWB-7(S)c	Total Recoverable	Water	3005A	
LCS 680-318485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-318485/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 318646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total Recoverable	Water	6020	318360
640-47048-2	MWB-32(I)d	Total Recoverable	Water	6020	318360
640-47048-3	MWB-32(D)d	Total Recoverable	Water	6020	318360
640-47048-4	MWB-33(S)d	Total Recoverable	Water	6020	318360
640-47048-5	MWB-29(S)c	Total Recoverable	Water	6020	318360
640-47048-5 MS	MWB-29(S)c	Total Recoverable	Water	6020	318360
640-47048-5 MSD	MWB-29(S)c	Total Recoverable	Water	6020	318360
640-47048-6	MWB-29(I)c	Total Recoverable	Water	6020	318360
640-47048-7	MWB-29(D)c	Total Recoverable	Water	6020	318360
640-47048-8	MWB-13(S)c	Total Recoverable	Water	6020	318360
640-47048-9	MWB-13(I)c	Total Recoverable	Water	6020	318360
640-47048-10	MWB-22(S)c	Total Recoverable	Water	6020	318360
640-47048-11	MWB-21(S)c	Total Recoverable	Water	6020	318360
640-47048-12	MWB-17(S)c	Total Recoverable	Water	6020	318360
640-47048-13	MWB-17(I)c	Total Recoverable	Water	6020	318360
640-47048-14	MWB-17(D)c	Total Recoverable	Water	6020	318360
640-47048-15	MWB-19(S)c	Total Recoverable	Water	6020	318360
640-47048-16	MWB-19(I)c	Total Recoverable	Water	6020	318360
640-47048-17	MWB-19(D)c	Total Recoverable	Water	6020	318360
640-47048-18	MWB-20(S)c	Total Recoverable	Water	6020	318360
LCS 680-318360/2-A	Lab Control Sample	Total Recoverable	Water	6020	318360
MB 680-318360/1-A	Method Blank	Total Recoverable	Water	6020	318360

Prep Batch: 318647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	7470A	
640-47063-2	MWB-3(S)b	Total/NA	Water	7470A	
640-47063-3	MWB-31(D)b	Total/NA	Water	7470A	
640-47063-3 MS	MWB-31(D)b	Total/NA	Water	7470A	
640-47063-3 MSD	MWB-31(D)b	Total/NA	Water	7470A	
640-47063-4	MWB-2(S)b	Total/NA	Water	7470A	
640-47063-5	MWB-2(I)b	Total/NA	Water	7470A	
640-47063-6	MWB-34(S)d	Total/NA	Water	7470A	
640-47063-7	MWB-34(I)d	Total/NA	Water	7470A	
640-47063-8	MWB-34(D)d	Total/NA	Water	7470A	
640-47063-9	MWB-27(S)c	Total/NA	Water	7470A	
640-47063-10	MWB-27(I)c	Total/NA	Water	7470A	
640-47063-11	MWB-27(D)c	Total/NA	Water	7470A	
640-47063-12	MWB-7(D)c	Total/NA	Water	7470A	
640-47063-13	MWB-7(1)c	Total/NA	Water	7470A	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Metals (Continued)

Prep Batch: 318647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-318647/14-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-318647/13-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 318689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	7470A	318391
640-47048-2	MWB-32(I)d	Total/NA	Water	7470A	318391
640-47048-3	MWB-32(D)d	Total/NA	Water	7470A	318391
640-47048-4	MWB-33(S)d	Total/NA	Water	7470A	318391
640-47048-5	MWB-29(S)c	Total/NA	Water	7470A	318391
640-47048-6	MWB-29(I)c	Total/NA	Water	7470A	318391
640-47048-7	MWB-29(D)c	Total/NA	Water	7470A	318391
640-47048-8	MWB-13(S)c	Total/NA	Water	7470A	318391
640-47048-9	MWB-13(I)c	Total/NA	Water	7470A	318391
640-47048-10	MWB-22(S)c	Total/NA	Water	7470A	318391
640-47048-11	MWB-21(S)c	Total/NA	Water	7470A	318391
640-47048-12	MWB-17(S)c	Total/NA	Water	7470A	318391
640-47048-13	MWB-17(I)c	Total/NA	Water	7470A	318391
640-47048-14	MWB-17(D)c	Total/NA	Water	7470A	318391
640-47048-15	MWB-19(S)c	Total/NA	Water	7470A	318391
640-47048-16	MWB-19(I)c	Total/NA	Water	7470A	318391
640-47048-17	MWB-19(D)c	Total/NA	Water	7470A	318391
640-47048-18	MWB-20(S)c	Total/NA	Water	7470A	318391
LCS 680-318391/2-A	Lab Control Sample	Total/NA	Water	7470A	318391
MB 680-318391/1-A	Method Blank	Total/NA	Water	7470A	318391

Analysis Batch: 318737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total Recoverable	Water	6020	318485
640-47063-1 MS	MWB-3(I)b	Total Recoverable	Water	6020	318485
640-47063-1 MSD	MWB-3(I)b	Total Recoverable	Water	6020	318485
640-47063-2	MWB-3(S)b	Total Recoverable	Water	6020	318485
640-47063-3	MWB-31(D)b	Total Recoverable	Water	6020	318485
640-47063-4	MWB-2(S)b	Total Recoverable	Water	6020	318485
640-47063-5	MWB-2(I)b	Total Recoverable	Water	6020	318485
640-47063-6	MWB-34(S)d	Total Recoverable	Water	6020	318485
640-47063-7	MWB-34(I)d	Total Recoverable	Water	6020	318485
640-47063-8	MWB-34(D)d	Total Recoverable	Water	6020	318485
640-47063-9	MWB-27(S)c	Total Recoverable	Water	6020	318485
640-47063-10	MWB-27(I)c	Total Recoverable	Water	6020	318485
640-47063-11	MWB-27(D)c	Total Recoverable	Water	6020	318485
640-47063-12	MWB-7(D)c	Total Recoverable	Water	6020	318485
640-47063-13	MWB-7(1)c	Total Recoverable	Water	6020	318485
640-47063-14	MWB-7(S)c	Total Recoverable	Water	6020	318485
LCS 680-318485/2-A	Lab Control Sample	Total Recoverable	Water	6020	318485
MB 680-318485/1-A	Method Blank	Total Recoverable	Water	6020	318485

Prep Batch: 318849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Dissolved	Water	3005A	
640-47084-1	SW-1	Total Recoverable	Water	3005A	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Metals (Continued)

Prep Batch: 318849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-2	SW-2	Dissolved	Water	3005A	
640-47084-2	SW-2	Total Recoverable	Water	3005A	
640-47084-3	SW-3	Dissolved	Water	3005A	
640-47084-3	SW-3	Total Recoverable	Water	3005A	
640-47090-4	Field Blank 01 47090	Total Recoverable	Water	3005A	
640-47090-5	Field Blank 02 47090	Total Recoverable	Water	3005A	
640-47090-6	MWB-12(S)c	Total Recoverable	Water	3005A	
640-47090-7	MWB-12(1)c	Total Recoverable	Water	3005A	
LCS 680-318849/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-318849/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 318856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-8	MWB-12(D)c	Total Recoverable	Water	3005A	
640-47090-9	MWB-11(S)c	Total Recoverable	Water	3005A	
640-47090-10	MWB-11(1)(R)c	Total Recoverable	Water	3005A	
LCS 680-318856/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-318856/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 318949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-4	Field Blank 01 47090	Total/NA	Water	7470A	
640-47090-5	Field Blank 02 47090	Total/NA	Water	7470A	
640-47090-6	MWB-12(S)c	Total/NA	Water	7470A	
640-47090-7	MWB-12(1)c	Total/NA	Water	7470A	
640-47090-8	MWB-12(D)c	Total/NA	Water	7470A	
640-47090-9	MWB-11(S)c	Total/NA	Water	7470A	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	7470A	
LCS 680-318949/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-318949/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 318961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	7470A	318647
640-47063-2	MWB-3(S)b	Total/NA	Water	7470A	318647
640-47063-3	MWB-31(D)b	Total/NA	Water	7470A	318647
640-47063-3 MS	MWB-31(D)b	Total/NA	Water	7470A	318647
640-47063-3 MSD	MWB-31(D)b	Total/NA	Water	7470A	318647
640-47063-4	MWB-2(S)b	Total/NA	Water	7470A	318647
640-47063-5	MWB-2(I)b	Total/NA	Water	7470A	318647
640-47063-6	MWB-34(S)d	Total/NA	Water	7470A	318647
640-47063-7	MWB-34(I)d	Total/NA	Water	7470A	318647
640-47063-8	MWB-34(D)d	Total/NA	Water	7470A	318647
640-47063-9	MWB-27(S)c	Total/NA	Water	7470A	318647
640-47063-10	MWB-27(I)c	Total/NA	Water	7470A	318647
640-47063-11	MWB-27(D)c	Total/NA	Water	7470A	318647
640-47063-12	MWB-7(D)c	Total/NA	Water	7470A	318647
640-47063-13	MWB-7(1)c	Total/NA	Water	7470A	318647
LCS 680-318647/14-A	Lab Control Sample	Total/NA	Water	7470A	318647
MB 680-318647/13-A	Method Blank	Total/NA	Water	7470A	318647

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Metals (Continued)

Prep Batch: 318968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-14	MWB-7(S)c	Total/NA	Water	7470A	
LCS 680-318968/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-318968/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 319150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Dissolved	Water	6020	318849
640-47084-1	SW-1	Total Recoverable	Water	6020	318849
640-47084-2	SW-2	Dissolved	Water	6020	318849
640-47084-2	SW-2	Total Recoverable	Water	6020	318849
640-47084-3	SW-3	Dissolved	Water	6020	318849
640-47084-3	SW-3	Total Recoverable	Water	6020	318849
640-47090-4	Field Blank 01 47090	Total Recoverable	Water	6020	318849
640-47090-5	Field Blank 02 47090	Total Recoverable	Water	6020	318849
640-47090-6	MWB-12(S)c	Total Recoverable	Water	6020	318849
640-47090-7	MWB-12(1)c	Total Recoverable	Water	6020	318849
LCS 680-318849/2-A	Lab Control Sample	Total Recoverable	Water	6020	318849
MB 680-318849/1-A	Method Blank	Total Recoverable	Water	6020	318849

Analysis Batch: 319171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-4	Field Blank 01 47090	Total/NA	Water	7470A	318949
640-47090-5	Field Blank 02 47090	Total/NA	Water	7470A	318949
640-47090-6	MWB-12(S)c	Total/NA	Water	7470A	318949
640-47090-7	MWB-12(1)c	Total/NA	Water	7470A	318949
640-47090-8	MWB-12(D)c	Total/NA	Water	7470A	318949
640-47090-9	MWB-11(S)c	Total/NA	Water	7470A	318949
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	7470A	318949
LCS 680-318949/2-A	Lab Control Sample	Total/NA	Water	7470A	318949
MB 680-318949/1-A	Method Blank	Total/NA	Water	7470A	318949

Analysis Batch: 319210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-14	MWB-7(S)c	Total/NA	Water	7470A	318968
LCS 680-318968/2-A	Lab Control Sample	Total/NA	Water	7470A	318968
MB 680-318968/1-A	Method Blank	Total/NA	Water	7470A	318968

Analysis Batch: 319337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-8	MWB-12(D)c	Total Recoverable	Water	6020	318856
640-47090-9	MWB-11(S)c	Total Recoverable	Water	6020	318856
640-47090-10	MWB-11(1)(R)c	Total Recoverable	Water	6020	318856
LCS 680-318856/2-A	Lab Control Sample	Total Recoverable	Water	6020	318856
MB 680-318856/1-A	Method Blank	Total Recoverable	Water	6020	318856

Analysis Batch: 320449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	SM 2340B	
640-47084-2	SW-2	Total/NA	Water	SM 2340B	
640-47084-3	SW-3	Total/NA	Water	SM 2340B	
MB 680-320449/1	Method Blank	Total/NA	Water	SM 2340B	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry

Analysis Batch: 108301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	UnionizedNH3	
640-47084-2	SW-2	Total/NA	Water	UnionizedNH3	
640-47084-3	SW-3	Total/NA	Water	UnionizedNH3	

Analysis Batch: 318363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	353.2	
640-47048-1 MS	MWB-32(S)d	Total/NA	Water	353.2	
640-47048-1 MSD	MWB-32(S)d	Total/NA	Water	353.2	
640-47048-2	MWB-32(I)d	Total/NA	Water	353.2	
640-47048-3	MWB-32(D)d	Total/NA	Water	353.2	
640-47048-4	MWB-33(S)d	Total/NA	Water	353.2	
640-47048-5	MWB-29(S)c	Total/NA	Water	353.2	
640-47048-6	MWB-29(I)c	Total/NA	Water	353.2	
640-47048-7	MWB-29(D)c	Total/NA	Water	353.2	
640-47048-8	MWB-13(S)c	Total/NA	Water	353.2	
640-47048-9	MWB-13(I)c	Total/NA	Water	353.2	
640-47048-10	MWB-22(S)c	Total/NA	Water	353.2	
640-47048-11	MWB-21(S)c	Total/NA	Water	353.2	
640-47048-11 DU	MWB-21(S)c	Total/NA	Water	353.2	
640-47048-12	MWB-17(S)c	Total/NA	Water	353.2	
640-47048-13	MWB-17(I)c	Total/NA	Water	353.2	
640-47048-14	MWB-17(D)c	Total/NA	Water	353.2	
640-47048-15	MWB-19(S)c	Total/NA	Water	353.2	
640-47048-16	MWB-19(I)c	Total/NA	Water	353.2	
640-47048-17	MWB-19(D)c	Total/NA	Water	353.2	
640-47048-18	MWB-20(S)c	Total/NA	Water	353.2	
LCS 680-318363/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-318363/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 318587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(I)b	Total/NA	Water	353.2	
640-47063-2	MWB-3(S)b	Total/NA	Water	353.2	
640-47063-3	MWB-31(D)b	Total/NA	Water	353.2	
640-47063-3 DU	MWB-31(D)b	Total/NA	Water	353.2	
640-47063-4	MWB-2(S)b	Total/NA	Water	353.2	
640-47063-5	MWB-2(I)b	Total/NA	Water	353.2	
640-47063-6	MWB-34(S)d	Total/NA	Water	353.2	
640-47063-7	MWB-34(I)d	Total/NA	Water	353.2	
640-47063-8	MWB-34(D)d	Total/NA	Water	353.2	
640-47063-9	MWB-27(S)c	Total/NA	Water	353.2	
640-47063-10	MWB-27(I)c	Total/NA	Water	353.2	
640-47063-11	MWB-27(D)c	Total/NA	Water	353.2	
640-47063-12	MWB-7(D)c	Total/NA	Water	353.2	
LCS 680-318587/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-318587/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 318588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-13	MWB-7(1)c	Total/NA	Water	353.2	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry (Continued)

Analysis Batch: 318588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-13 MS	MWB-7(1)c	Total/NA	Water	353.2	
640-47063-13 MSD	MWB-7(1)c	Total/NA	Water	353.2	
640-47063-14	MWB-7(S)c	Total/NA	Water	353.2	
LCS 680-318588/13	Lab Control Sample	Total/NA	Water	353.2	
MB 680-318588/14	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 318700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	2540 D-2011	
640-47084-2	SW-2	Total/NA	Water	2540 D-2011	
640-47084-3	SW-3	Total/NA	Water	2540 D-2011	
LCS 680-318700/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-318700/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-318700/1	Method Blank	Total/NA	Water	2540 D-2011	

Analysis Batch: 318733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	4500 P F-2011	
640-47084-1 MS	SW-1	Total/NA	Water	4500 P F-2011	
640-47084-1 MSD	SW-1	Total/NA	Water	4500 P F-2011	
640-47084-2	SW-2	Total/NA	Water	4500 P F-2011	
640-47084-3	SW-3	Total/NA	Water	4500 P F-2011	
LCS 680-318733/1	Lab Control Sample	Total/NA	Water	4500 P F-2011	
MB 680-318733/11	Method Blank	Total/NA	Water	4500 P F-2011	

Analysis Batch: 318742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	5210B-2011	
640-47084-2	SW-2	Total/NA	Water	5210B-2011	
640-47084-3	SW-3	Total/NA	Water	5210B-2011	
LCS 680-318742/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-318742/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-318742/1	Method Blank	Total/NA	Water	5210B-2011	

Analysis Batch: 318743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-9	MWB-11(S)c	Total/NA	Water	353.2	
640-47090-9 MS	MWB-11(S)c	Total/NA	Water	353.2	
640-47090-9 MSD	MWB-11(S)c	Total/NA	Water	353.2	
LCS 680-318743/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-318743/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 318745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	353.2	
640-47084-2	SW-2	Total/NA	Water	353.2	
640-47084-3	SW-3	Total/NA	Water	353.2	
640-47090-4	Field Blank 01 47090	Total/NA	Water	353.2	
640-47090-5	Field Blank 02 47090	Total/NA	Water	353.2	
640-47090-6	MWB-12(S)c	Total/NA	Water	353.2	
640-47090-7	MWB-12(1)c	Total/NA	Water	353.2	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry (Continued)

Analysis Batch: 318745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-7 MS	MWB-12(1)c	Total/NA	Water	353.2	
640-47090-7 MSD	MWB-12(1)c	Total/NA	Water	353.2	
640-47090-8	MWB-12(D)c	Total/NA	Water	353.2	
640-47090-8 DU	MWB-12(D)c	Total/NA	Water	353.2	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	353.2	
LCS 680-318745/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-318745/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 319097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	2540C-2011	
640-47048-2	MWB-32(I)d	Total/NA	Water	2540C-2011	
640-47048-3	MWB-32(D)d	Total/NA	Water	2540C-2011	
640-47048-4	MWB-33(S)d	Total/NA	Water	2540C-2011	
640-47048-5	MWB-29(S)c	Total/NA	Water	2540C-2011	
640-47048-6	MWB-29(I)c	Total/NA	Water	2540C-2011	
640-47048-7	MWB-29(D)c	Total/NA	Water	2540C-2011	
640-47048-8	MWB-13(S)c	Total/NA	Water	2540C-2011	
640-47048-8 DU	MWB-13(S)c	Total/NA	Water	2540C-2011	
640-47048-9	MWB-13(I)c	Total/NA	Water	2540C-2011	
640-47048-10	MWB-22(S)c	Total/NA	Water	2540C-2011	
640-47048-10 DU	MWB-22(S)c	Total/NA	Water	2540C-2011	
640-47048-11	MWB-21(S)c	Total/NA	Water	2540C-2011	
640-47048-12	MWB-17(S)c	Total/NA	Water	2540C-2011	
640-47048-13	MWB-17(I)c	Total/NA	Water	2540C-2011	
640-47048-14	MWB-17(D)c	Total/NA	Water	2540C-2011	
LCS 680-319097/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-319097/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-319097/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 319125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-15	MWB-19(S)c	Total/NA	Water	2540C-2011	
640-47048-16	MWB-19(I)c	Total/NA	Water	2540C-2011	
640-47048-17	MWB-19(D)c	Total/NA	Water	2540C-2011	
640-47048-18	MWB-20(S)c	Total/NA	Water	2540C-2011	
LCS 680-319125/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-319125/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-319125/1	Method Blank	Total/NA	Water	2540C-2011	

Prep Batch: 319184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-2	SW-2	Total/NA	Water	Digestion	
640-47084-3	SW-3	Total/NA	Water	Digestion	
LCS 680-319184/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-319184/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 319349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-2	MWB-3(S)b	Total/NA	Water	2540C-2011	
640-47063-3	MWB-31(D)b	Total/NA	Water	2540C-2011	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry (Continued)

Analysis Batch: 319349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-3 DU	MWB-31(D)b	Total/NA	Water	2540C-2011	
640-47063-4	MWB-2(S)b	Total/NA	Water	2540C-2011	
640-47063-5	MWB-2(l)b	Total/NA	Water	2540C-2011	
640-47063-6	MWB-34(S)d	Total/NA	Water	2540C-2011	
640-47063-7	MWB-34(l)d	Total/NA	Water	2540C-2011	
640-47063-8	MWB-34(D)d	Total/NA	Water	2540C-2011	
640-47063-9	MWB-27(S)c	Total/NA	Water	2540C-2011	
640-47063-10	MWB-27(l)c	Total/NA	Water	2540C-2011	
640-47063-11	MWB-27(D)c	Total/NA	Water	2540C-2011	
640-47063-12	MWB-7(D)c	Total/NA	Water	2540C-2011	
640-47063-12 DU	MWB-7(D)c	Total/NA	Water	2540C-2011	
640-47063-13	MWB-7(1)c	Total/NA	Water	2540C-2011	
640-47063-14	MWB-7(S)c	Total/NA	Water	2540C-2011	
LCS 680-319349/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-319349/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-319349/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 319350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-1	MWB-3(l)b	Total/NA	Water	2540C-2011	
LCS 680-319350/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-319350/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-319350/1	Method Blank	Total/NA	Water	2540C-2011	

Prep Batch: 319373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	Digestion	
LCS 680-319373/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-319373/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 319431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-4	Field Blank 01 47090	Total/NA	Water	2540C-2011	
640-47090-4 DU	Field Blank 01 47090	Total/NA	Water	2540C-2011	
640-47090-5	Field Blank 02 47090	Total/NA	Water	2540C-2011	
640-47090-6	MWB-12(S)c	Total/NA	Water	2540C-2011	
640-47090-7	MWB-12(1)c	Total/NA	Water	2540C-2011	
640-47090-8	MWB-12(D)c	Total/NA	Water	2540C-2011	
640-47090-9	MWB-11(S)c	Total/NA	Water	2540C-2011	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	2540C-2011	
LCS 680-319431/2	Lab Control Sample	Total/NA	Water	2540C-2011	
MB 680-319431/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 319457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	2540C-2011	
640-47084-2	SW-2	Total/NA	Water	2540C-2011	
640-47084-3	SW-3	Total/NA	Water	2540C-2011	
LCS 680-319457/2	Lab Control Sample	Total/NA	Water	2540C-2011	
MB 680-319457/1	Method Blank	Total/NA	Water	2540C-2011	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry (Continued)

Analysis Batch: 319541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	365.4	319373
640-47084-2	SW-2	Total/NA	Water	365.4	319184
640-47084-3	SW-3	Total/NA	Water	365.4	319184
LCS 680-319184/1-A	Lab Control Sample	Total/NA	Water	365.4	319184
LCS 680-319373/1-A	Lab Control Sample	Total/NA	Water	365.4	319373
MB 680-319184/2-A	Method Blank	Total/NA	Water	365.4	319184
MB 680-319373/2-A	Method Blank	Total/NA	Water	365.4	319373

Analysis Batch: 319557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	SM 5220D	
640-47084-2	SW-2	Total/NA	Water	SM 5220D	
640-47084-3	SW-3	Total/NA	Water	SM 5220D	
LCS 680-319557/4	Lab Control Sample	Total/NA	Water	SM 5220D	
MB 680-319557/3	Method Blank	Total/NA	Water	SM 5220D	

Analysis Batch: 319702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	Total Nitrogen	
640-47084-2	SW-2	Total/NA	Water	Total Nitrogen	
640-47084-3	SW-3	Total/NA	Water	Total Nitrogen	

Analysis Batch: 320062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47084-1	SW-1	Total/NA	Water	5310 B-2011	
640-47084-1 MS	SW-1	Total/NA	Water	5310 B-2011	
640-47084-1 MSD	SW-1	Total/NA	Water	5310 B-2011	
640-47084-2	SW-2	Total/NA	Water	5310 B-2011	
640-47084-3	SW-3	Total/NA	Water	5310 B-2011	
LCS 680-320062/5	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-320062/6	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
MB 680-320062/2	Method Blank	Total/NA	Water	5310 B-2011	

Analysis Batch: 320075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-12	MWB-17(S)c	Total/NA	Water	350.1	
640-47048-13	MWB-17(I)c	Total/NA	Water	350.1	
640-47048-13 MS	MWB-17(I)c	Total/NA	Water	350.1	
640-47048-13 MSD	MWB-17(I)c	Total/NA	Water	350.1	
640-47048-14	MWB-17(D)c	Total/NA	Water	350.1	
640-47048-14 DU	MWB-17(D)c	Total/NA	Water	350.1	
640-47048-15	MWB-19(S)c	Total/NA	Water	350.1	
640-47048-16	MWB-19(I)c	Total/NA	Water	350.1	
640-47048-17	MWB-19(D)c	Total/NA	Water	350.1	
640-47048-18	MWB-20(S)c	Total/NA	Water	350.1	
640-47063-1	MWB-3(I)b	Total/NA	Water	350.1	
640-47063-2	MWB-3(S)b	Total/NA	Water	350.1	
640-47063-3	MWB-31(D)b	Total/NA	Water	350.1	
640-47063-4	MWB-2(S)b	Total/NA	Water	350.1	
640-47063-5	MWB-2(I)b	Total/NA	Water	350.1	
640-47063-6	MWB-34(S)d	Total/NA	Water	350.1	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

General Chemistry (Continued)

Analysis Batch: 320075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-7	MWB-34(I)d	Total/NA	Water	350.1	
640-47063-8	MWB-34(D)d	Total/NA	Water	350.1	
640-47063-9	MWB-27(S)c	Total/NA	Water	350.1	
640-47063-10	MWB-27(I)c	Total/NA	Water	350.1	
640-47063-11	MWB-27(D)c	Total/NA	Water	350.1	
640-47063-12	MWB-7(D)c	Total/NA	Water	350.1	
640-47063-13	MWB-7(1)c	Total/NA	Water	350.1	
LCS 680-320075/36	Lab Control Sample	Total/NA	Water	350.1	
MB 680-320075/21	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 320076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47063-14	MWB-7(S)c	Total/NA	Water	350.1	
LCS 680-320076/34	Lab Control Sample	Total/NA	Water	350.1	
MB 680-320076/47	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 320339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	350.1	
640-47048-2	MWB-32(I)d	Total/NA	Water	350.1	
640-47048-2 MS	MWB-32(I)d	Total/NA	Water	350.1	
640-47048-2 MSD	MWB-32(I)d	Total/NA	Water	350.1	
640-47048-3	MWB-32(D)d	Total/NA	Water	350.1	
640-47048-3 DU	MWB-32(D)d	Total/NA	Water	350.1	
640-47048-4	MWB-33(S)d	Total/NA	Water	350.1	
640-47048-5	MWB-29(S)c	Total/NA	Water	350.1	
640-47048-6	MWB-29(I)c	Total/NA	Water	350.1	
640-47048-7	MWB-29(D)c	Total/NA	Water	350.1	
640-47048-8	MWB-13(S)c	Total/NA	Water	350.1	
640-47048-9	MWB-13(I)c	Total/NA	Water	350.1	
640-47048-10	MWB-22(S)c	Total/NA	Water	350.1	
640-47048-11	MWB-21(S)c	Total/NA	Water	350.1	
640-47090-4	Field Blank 01 47090	Total/NA	Water	350.1	
640-47090-5	Field Blank 02 47090	Total/NA	Water	350.1	
640-47090-6	MWB-12(S)c	Total/NA	Water	350.1	
640-47090-7	MWB-12(1)c	Total/NA	Water	350.1	
640-47090-8	MWB-12(D)c	Total/NA	Water	350.1	
640-47090-9	MWB-11(S)c	Total/NA	Water	350.1	
LCS 680-320339/28	Lab Control Sample	Total/NA	Water	350.1	
MB 680-320339/35	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 320340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	350.1	
LCS 680-320340/9	Lab Control Sample	Total/NA	Water	350.1	
MB 680-320340/22	Method Blank	Total/NA	Water	350.1	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47048-1

Field Service / Mobile Lab

Analysis Batch: 108171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47048-1	MWB-32(S)d	Total/NA	Water	Field Sampling	
640-47048-2	MWB-32(I)d	Total/NA	Water	Field Sampling	
640-47048-3	MWB-32(D)d	Total/NA	Water	Field Sampling	
640-47048-4	MWB-33(S)d	Total/NA	Water	Field Sampling	
640-47048-5	MWB-29(S)c	Total/NA	Water	Field Sampling	
640-47048-6	MWB-29(I)c	Total/NA	Water	Field Sampling	
640-47048-7	MWB-29(D)c	Total/NA	Water	Field Sampling	
640-47048-8	MWB-13(S)c	Total/NA	Water	Field Sampling	
640-47048-9	MWB-13(I)c	Total/NA	Water	Field Sampling	
640-47048-10	MWB-22(S)c	Total/NA	Water	Field Sampling	
640-47048-11	MWB-21(S)c	Total/NA	Water	Field Sampling	
640-47048-12	MWB-17(S)c	Total/NA	Water	Field Sampling	
640-47048-13	MWB-17(I)c	Total/NA	Water	Field Sampling	
640-47048-14	MWB-17(D)c	Total/NA	Water	Field Sampling	
640-47048-15	MWB-19(S)c	Total/NA	Water	Field Sampling	
640-47048-16	MWB-19(I)c	Total/NA	Water	Field Sampling	
640-47048-17	MWB-19(D)c	Total/NA	Water	Field Sampling	
640-47048-18	MWB-20(S)c	Total/NA	Water	Field Sampling	
640-47063-1	MWB-3(I)b	Total/NA	Water	Field Sampling	
640-47063-2	MWB-3(S)b	Total/NA	Water	Field Sampling	
640-47063-3	MWB-31(D)b	Total/NA	Water	Field Sampling	
640-47063-4	MWB-2(S)b	Total/NA	Water	Field Sampling	
640-47063-5	MWB-2(I)b	Total/NA	Water	Field Sampling	
640-47063-6	MWB-34(S)d	Total/NA	Water	Field Sampling	
640-47063-7	MWB-34(I)d	Total/NA	Water	Field Sampling	
640-47063-8	MWB-34(D)d	Total/NA	Water	Field Sampling	
640-47063-9	MWB-27(S)c	Total/NA	Water	Field Sampling	
640-47063-10	MWB-27(I)c	Total/NA	Water	Field Sampling	
640-47063-11	MWB-27(D)c	Total/NA	Water	Field Sampling	
640-47063-12	MWB-7(D)c	Total/NA	Water	Field Sampling	
640-47063-13	MWB-7(1)c	Total/NA	Water	Field Sampling	
640-47063-14	MWB-7(S)c	Total/NA	Water	Field Sampling	
640-47084-1	SW-1	Total/NA	Water	Field Sampling	
640-47084-2	SW-2	Total/NA	Water	Field Sampling	
640-47084-3	SW-3	Total/NA	Water	Field Sampling	
640-47090-6	MWB-12(S)c	Total/NA	Water	Field Sampling	
640-47090-7	MWB-12(1)c	Total/NA	Water	Field Sampling	
640-47090-8	MWB-12(D)c	Total/NA	Water	Field Sampling	
640-47090-9	MWB-11(S)c	Total/NA	Water	Field Sampling	
640-47090-10	MWB-11(1)(R)c	Total/NA	Water	Field Sampling	

Analysis Batch: 108177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47090-4	Field Blank 01 47090	Total/NA	Water	Field Sampling	
640-47090-5	Field Blank 02 47090	Total/NA	Water	Field Sampling	

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(S)d

Date Collected: 03/04/14 16:26

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 02:22	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 19:54	SSP	TAL SAV
Total/NA	Analysis	300.0		2	319354	03/12/14 14:35	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 19:27	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:40	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:07	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:43	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 16:25	FDS	TAL TAL

Client Sample ID: MWB-32(I)d

Date Collected: 03/04/14 15:55

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 02:43	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:03	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 14:50	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 19:33	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:43	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:07	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:49	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 15:54	FDS	TAL TAL

Client Sample ID: MWB-32(D)d

Date Collected: 03/04/14 15:25

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 03:05	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:11	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 15:06	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 19:40	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-47048-3

Date Collected: 03/04/14 15:25

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:46	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:07	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:50	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 15:24	FDS	TAL TAL

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-47048-4

Date Collected: 03/04/14 14:45

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 03:26	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:20	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 15:21	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:01	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:49	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:07	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:51	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 14:44	FDS	TAL TAL

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-47048-5

Date Collected: 03/04/14 14:12

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 03:48	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:28	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 15:36	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 18:54	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:52	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:53	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 14:11	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-29(I)c

Date Collected: 03/04/14 13:41

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 04:09	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:37	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 15:52	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:08	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:55	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:54	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 13:40	FDS	TAL TAL

Client Sample ID: MWB-29(D)c

Date Collected: 03/04/14 13:12

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 04:31	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:45	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 16:07	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:14	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 14:58	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:55	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 13:11	FDS	TAL TAL

Client Sample ID: MWB-13(S)c

Date Collected: 03/04/14 12:35

Date Received: 03/05/14 08:15

Lab Sample ID: 640-47048-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 04:52	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 20:54	SSP	TAL SAV
Total/NA	Analysis	300.0		2	319354	03/12/14 16:22	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:21	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-47048-8

Date Collected: 03/04/14 12:35

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:01	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:56	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 12:34	FDS	TAL TAL

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-47048-9

Date Collected: 03/04/14 12:07

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 05:14	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:02	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 17:39	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:28	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:10	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:58	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 12:06	FDS	TAL TAL

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-47048-10

Date Collected: 03/04/14 11:35

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 05:35	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:11	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 17:54	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:35	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:13	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 12:59	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 11:34	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-47048-11

Date Collected: 03/04/14 11:03

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 05:57	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:20	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 18:10	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:41	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:16	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:16	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 11:02	FDS	TAL TAL

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-47048-12

Date Collected: 03/04/14 10:29

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 06:18	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:28	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 18:25	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:48	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:18	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:05	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 10:28	FDS	TAL TAL

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Date Collected: 03/04/14 09:58

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 06:40	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:37	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 18:40	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 20:55	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-47048-13

Date Collected: 03/04/14 09:58

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:21	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:06	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 09:57	FDS	TAL TAL

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-47048-14

Date Collected: 03/04/14 09:29

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 07:01	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:45	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 18:56	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 21:02	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:24	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319097	03/11/14 11:25	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:07	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 09:28	FDS	TAL TAL

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-47048-15

Date Collected: 03/04/14 08:55

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 07:23	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 21:54	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 19:11	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 21:22	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:27	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319125	03/11/14 12:21	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:08	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 08:54	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-47048-16

Date Collected: 03/04/14 08:26

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 07:44	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 22:02	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 19:26	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 21:29	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:30	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319125	03/11/14 12:21	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:10	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 08:25	FDS	TAL TAL

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-47048-17

Date Collected: 03/04/14 07:57

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 08:05	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 22:11	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 20:58	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 21:36	BWR	TAL SAV
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:33	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319125	03/11/14 12:21	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:11	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 07:56	FDS	TAL TAL

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Date Collected: 03/04/14 07:21

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 08:27	JD1	TAL SAV
Total/NA	Prep	8011			318951	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318974	03/10/14 22:19	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319354	03/12/14 21:14	CMB	TAL SAV
Total Recoverable	Prep	3005A			318360	03/05/14 13:48	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318646	03/06/14 21:43	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-47048-18

Date Collected: 03/04/14 07:21

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318391	03/05/14 14:51	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318689	03/06/14 15:36	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319125	03/11/14 12:21	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:49	JME	TAL SAV
Total/NA	Analysis	353.2		1	318363	03/05/14 13:12	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/04/14 07:20	FDS	TAL TAL

Client Sample ID: Trip Blank 01 47048

Lab Sample ID: 640-47048-19

Date Collected: 03/04/14 00:00

Matrix: Water

Date Received: 03/05/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	318821	03/10/14 02:00	JD1	TAL SAV

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-47063-1

Date Collected: 03/05/14 12:54

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 17:53	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:10	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 12:08	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 05:48	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:18	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319350	03/12/14 14:36	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:58	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 16:55	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 12:53	FDS	TAL TAL

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

Date Collected: 03/05/14 12:19

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 18:16	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:19	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 12:51	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-47063-2

Date Collected: 03/05/14 12:19

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	318737	03/07/14 06:25	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:21	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:58	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 16:56	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 12:18	FDS	TAL TAL

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-47063-3

Date Collected: 03/05/14 11:46

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 18:39	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:27	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 13:06	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 06:32	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:23	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:58	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 16:58	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 11:45	FDS	TAL TAL

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

Date Collected: 03/05/14 11:10

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 19:01	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:36	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 13:20	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 06:40	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:32	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:30	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:00	GRX	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-47063-4

Date Collected: 03/05/14 11:10

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 11:09	FDS	TAL TAL

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-47063-5

Date Collected: 03/05/14 10:39

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 19:24	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:44	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 13:34	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:02	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:35	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:30	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:01	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 10:38	FDS	TAL TAL

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-47063-6

Date Collected: 03/05/14 10:04

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 19:46	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 00:53	SSP	TAL SAV
Total/NA	Analysis	300.0		4	320097	03/18/14 13:49	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:09	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:44	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		2	320075	03/17/14 17:40	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:02	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 10:03	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-47063-7

Date Collected: 03/05/14 09:33

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 20:09	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:02	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 14:03	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:17	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:47	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:30	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:04	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 09:32	FDS	TAL TAL

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-47063-8

Date Collected: 03/05/14 09:02

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319036	03/11/14 20:31	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:10	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 14:18	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:24	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:50	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:30	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:07	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 09:01	FDS	TAL TAL

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Date Collected: 03/05/14 08:19

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 19:01	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:19	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 15:01	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:31	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-47063-9

Date Collected: 03/05/14 08:19

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:53	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:58	JME	TAL SAV
Total/NA	Analysis	353.2		2	318587	03/06/14 17:10	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 08:18	FDS	TAL TAL

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-47063-10

Date Collected: 03/05/14 07:48

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 19:32	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:27	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 15:15	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:39	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:55	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 16:58	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:11	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 07:47	FDS	TAL TAL

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-47063-11

Date Collected: 03/05/14 07:15

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 20:02	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:36	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 15:30	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:46	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 10:58	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:07	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:13	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 07:14	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(D)c

Date Collected: 03/05/14 13:30

Date Received: 03/06/14 08:20

Lab Sample ID: 640-47063-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 20:32	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:44	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 15:44	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 07:54	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 11:01	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:08	JME	TAL SAV
Total/NA	Analysis	353.2		1	318587	03/06/14 17:14	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 13:29	FDS	TAL TAL

Client Sample ID: MWB-7(1)c

Date Collected: 03/05/14 14:02

Date Received: 03/06/14 08:20

Lab Sample ID: 640-47063-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 21:02	MMT	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 01:53	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319563	03/13/14 23:08	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 08:01	BWR	TAL SAV
Total/NA	Prep	7470A			318647	03/07/14 09:44	BJB	TAL SAV
Total/NA	Analysis	7470A		1	318961	03/10/14 11:04	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320075	03/17/14 17:08	JME	TAL SAV
Total/NA	Analysis	353.2		1	318588	03/06/14 17:17	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 14:01	FDS	TAL TAL

Client Sample ID: MWB-7(S)c

Date Collected: 03/05/14 14:34

Date Received: 03/06/14 08:20

Lab Sample ID: 640-47063-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319228	03/12/14 11:35	TF1	TAL SAV
Total/NA	Prep	8011			318954	03/10/14 15:30	SSP	TAL SAV
Total/NA	Analysis	8011		1	318975	03/11/14 02:02	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319563	03/14/14 02:01	PAT	TAL SAV
Total Recoverable	Prep	3005A			318485	03/06/14 10:29	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	318737	03/07/14 08:08	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-47063-14

Date Collected: 03/05/14 14:34

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318968	03/10/14 15:36	JKL	TAL SAV
Total/NA	Analysis	7470A		1	319210	03/11/14 15:09	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319349	03/12/14 14:27	LBH	TAL SAV
Total/NA	Analysis	350.1		1	320076	03/17/14 17:08	JME	TAL SAV
Total/NA	Analysis	353.2		1	318588	03/06/14 17:23	GRX	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/05/14 14:33	FDS	TAL TAL

Client Sample ID: Trip Blank 02 47063

Lab Sample ID: 640-47063-15

Date Collected: 03/05/14 00:00

Matrix: Water

Date Received: 03/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319041	03/11/14 18:31	MMT	TAL SAV

Client Sample ID: SW-1

Lab Sample ID: 640-47084-1

Date Collected: 03/06/14 11:15

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 15:30	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 19:42	SSP	TAL SAV
Total/NA	Prep	1631E			210476	03/11/14 12:15	VLC	TAL PEN
Total/NA	Analysis	1631E		1	210584	03/13/14 14:48	VLC	TAL PEN
Dissolved	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Dissolved	Analysis	6020		1	319150	03/10/14 20:01	BWR	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 19:54	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	320449	03/10/14 19:54	CME	TAL SAV
Total/NA	Analysis	2540 D-2011		1	318700	03/07/14 12:17	DAM	TAL SAV
Total/NA	Analysis	2540C-2011		1	319457	03/13/14 10:46	DAM	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:45	JME	TAL SAV
Total/NA	Prep	Digestion			319373	03/12/14 16:00	ANH	TAL SAV
Total/NA	Analysis	365.4		1	319541	03/13/14 13:18	CMP	TAL SAV
Total/NA	Analysis	4500 P F-2011		1	318733	03/07/14 12:03	JME	TAL SAV
Total/NA	Analysis	5210B-2011		1	318742	03/07/14 12:06	OLB	TAL SAV
Total/NA	Analysis	5310 B-2011		1	320062	03/17/14 14:52	CMP	TAL SAV
Total/NA	Analysis	SM 5220D		2	319557	03/13/14 14:53	DL1	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	319702	03/14/14 14:12	JER	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	108301	03/20/14 21:59	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 11:15	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-2

Lab Sample ID: 640-47084-2

Date Collected: 03/06/14 10:15

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 15:59	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 19:51	SSP	TAL SAV
Total/NA	Prep	1631E			210476	03/11/14 12:15	VLC	TAL PEN
Total/NA	Analysis	1631E		1	210584	03/13/14 14:56	VLC	TAL PEN
Dissolved	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Dissolved	Analysis	6020		1	319150	03/10/14 20:28	BWR	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 20:07	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	320449	03/10/14 20:07	CME	TAL SAV
Total/NA	Analysis	2540 D-2011		1	318700	03/07/14 12:17	DAM	TAL SAV
Total/NA	Analysis	2540C-2011		1	319457	03/13/14 10:46	DAM	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:46	JME	TAL SAV
Total/NA	Prep	Digestion			319184	03/11/14 15:30	ANH	TAL SAV
Total/NA	Analysis	365.4		1	319541	03/13/14 11:54	CMP	TAL SAV
Total/NA	Analysis	4500 P F-2011		1	318733	03/07/14 12:03	JME	TAL SAV
Total/NA	Analysis	5210B-2011		1	318742	03/07/14 12:06	OLB	TAL SAV
Total/NA	Analysis	5310 B-2011		1	320062	03/17/14 15:34	CMP	TAL SAV
Total/NA	Analysis	SM 5220D		1	319557	03/13/14 14:53	DL1	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	319702	03/14/14 14:12	JER	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	108301	03/20/14 21:59	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 10:15	FDS	TAL TAL

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Date Collected: 03/06/14 10:45

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 16:28	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 19:59	SSP	TAL SAV
Total/NA	Prep	1631E			210476	03/11/14 12:15	VLC	TAL PEN
Total/NA	Analysis	1631E		1	210584	03/13/14 15:04	VLC	TAL PEN
Dissolved	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Dissolved	Analysis	6020		1	319150	03/10/14 20:41	BWR	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 20:35	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	320449	03/10/14 20:35	CME	TAL SAV
Total/NA	Analysis	2540 D-2011		1	318700	03/07/14 12:17	DAM	TAL SAV
Total/NA	Analysis	2540C-2011		1	319457	03/13/14 10:46	DAM	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:47	JME	TAL SAV
Total/NA	Prep	Digestion			319184	03/11/14 15:30	ANH	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: SW-3

Lab Sample ID: 640-47084-3

Date Collected: 03/06/14 10:45

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	319541	03/13/14 11:51	CMP	TAL SAV
Total/NA	Analysis	4500 P F-2011		1	318733	03/07/14 12:03	JME	TAL SAV
Total/NA	Analysis	5210B-2011		1	318742	03/07/14 12:06	OLB	TAL SAV
Total/NA	Analysis	5310 B-2011		1	320062	03/17/14 15:53	CMP	TAL SAV
Total/NA	Analysis	SM 5220D		1	319557	03/13/14 14:53	DL1	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	319702	03/14/14 14:12	JER	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	108301	03/20/14 21:59	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 10:45	FDS	TAL TAL

Client Sample ID: Trip Blank 03 47084

Lab Sample ID: 640-47084-4

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 14:59	TF1	TAL SAV

Client Sample ID: Field Blank 01 47090

Lab Sample ID: 640-47090-4

Date Collected: 03/06/14 09:45

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319688	03/15/14 01:21	PAT	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 21:02	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 18:51	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/19/14 10:46	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:51	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108177	03/06/14 09:45	FDS	TAL TAL

Client Sample ID: Field Blank 02 47090

Lab Sample ID: 640-47090-5

Date Collected: 03/06/14 11:35

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319688	03/15/14 01:36	PAT	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 21:09	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 18:54	BCB	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: Field Blank 02 47090

Lab Sample ID: 640-47090-5

Date Collected: 03/06/14 11:35

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/19/14 10:46	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:52	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108177	03/06/14 11:35	FDS	TAL TAL

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-47090-6

Date Collected: 03/06/14 09:33

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 16:58	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 20:08	SSP	TAL SAV
Total/NA	Analysis	300.0		2	319688	03/15/14 01:50	PAT	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 21:16	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 18:57	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:17	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:53	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 09:32	FDS	TAL TAL

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-47090-7

Date Collected: 03/06/14 08:52

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 17:27	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 20:17	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319688	03/15/14 02:05	PAT	TAL SAV
Total Recoverable	Prep	3005A			318849	03/10/14 09:05	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319150	03/10/14 21:22	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 19:05	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:26	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:41	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 08:51	FDS	TAL TAL

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-47090-8

Date Collected: 03/06/14 08:21

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 17:56	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 20:25	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319688	03/15/14 02:48	PAT	TAL SAV
Total Recoverable	Prep	3005A			318856	03/10/14 09:32	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319337	03/11/14 18:58	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 19:08	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:26	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:58	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 08:20	FDS	TAL TAL

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-47090-9

Date Collected: 03/06/14 07:44

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 18:25	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 20:34	SSP	TAL SAV
Total/NA	Analysis	300.0		1	319688	03/15/14 03:02	PAT	TAL SAV
Total Recoverable	Prep	3005A			318856	03/10/14 09:32	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319337	03/11/14 19:20	BWR	TAL SAV
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 19:11	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320339	03/18/14 18:26	JME	TAL SAV
Total/NA	Analysis	353.2		1	318743	03/07/14 14:22	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 07:43	FDS	TAL TAL

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Date Collected: 03/06/14 07:13

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 18:54	TF1	TAL SAV
Total/NA	Prep	8011			319170	03/11/14 16:00	SSP	TAL SAV
Total/NA	Analysis	8011		1	319197	03/11/14 20:42	SSP	TAL SAV
Total/NA	Analysis	300.0		1	320097	03/18/14 16:27	PAT	TAL SAV
Total Recoverable	Prep	3005A			318856	03/10/14 09:32	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	319337	03/11/14 19:27	BWR	TAL SAV

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47048-1

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-47090-10

Date Collected: 03/06/14 07:13

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			318949	03/10/14 13:16	BJB	TAL SAV
Total/NA	Analysis	7470A		1	319171	03/10/14 19:14	BCB	TAL SAV
Total/NA	Analysis	2540C-2011		1	319431	03/13/14 09:23	DAM	TAL SAV
Total/NA	Analysis	350.1		1	320340	03/18/14 18:26	JME	TAL SAV
Total/NA	Analysis	353.2		1	318745	03/07/14 14:55	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	108171	03/06/14 07:12	FDS	TAL TAL

Client Sample ID: Trip Blank 04 47090

Lab Sample ID: 640-47090-11

Date Collected: 03/06/14 00:00

Matrix: Water

Date Received: 03/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	319225	03/12/14 14:30	TF1	TAL SAV

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

TestAmerica Tallahassee

Certification Summary

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

TestAmerica Job ID: 640-47048-1

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	06-30-14
Georgia	State Program	4		06-30-14
Louisiana	NELAP	6	30663	06-30-14
New Jersey	NELAP	2	FL012	06-30-14
Texas	NELAP	6	T104704459-11-2	03-31-14 *
USDA	Federal		P330-08-00158	08-05-14

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	06-30-14
Arkansas DEQ	State Program	6	88-0689	09-01-14
Florida	NELAP	4	E81010	06-30-14
Georgia	State Program	4	N/A	06-30-14
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	06-30-14
Maryland	State Program	3	233	09-30-14
Massachusetts	State Program	1	M-FL094	06-30-14
Michigan	State Program	5	9912	05-04-14
New Jersey	NELAP	2	FL006	06-30-14
North Carolina DENR	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	06-30-14
Texas	NELAP	6	T104704286-12-5	09-30-14
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-14
West Virginia DEP	State Program	3	136	06-30-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tallahassee

Certification Summary

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

TestAmerica Job ID: 640-47048-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14 *
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tallahassee

Method Summary

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

TestAmerica Job ID: 640-47048-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
1631E	Mercury, Low Level (CVAFS)	EPA	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL SAV
2540 D-2011	Total Suspended Solids Dried at 103-105°C	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
4500 P F-2011	Orthophosphate, Automated Ascorbic Acid Method	SM	TAL SAV
5210B-2011	BOD, 5-Day	SM	TAL SAV
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

TestAmerica Tallahassee

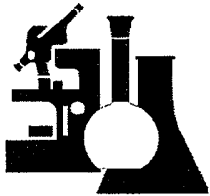
Sample Summary

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

TestAmerica Job ID: 640-47048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-47048-1	MWB-32(S)d	Water	03/04/14 16:26	03/05/14 08:15
640-47048-2	MWB-32(I)d	Water	03/04/14 15:55	03/05/14 08:15
640-47048-3	MWB-32(D)d	Water	03/04/14 15:25	03/05/14 08:15
640-47048-4	MWB-33(S)d	Water	03/04/14 14:45	03/05/14 08:15
640-47048-5	MWB-29(S)c	Water	03/04/14 14:12	03/05/14 08:15
640-47048-6	MWB-29(I)c	Water	03/04/14 13:41	03/05/14 08:15
640-47048-7	MWB-29(D)c	Water	03/04/14 13:12	03/05/14 08:15
640-47048-8	MWB-13(S)c	Water	03/04/14 12:35	03/05/14 08:15
640-47048-9	MWB-13(I)c	Water	03/04/14 12:07	03/05/14 08:15
640-47048-10	MWB-22(S)c	Water	03/04/14 11:35	03/05/14 08:15
640-47048-11	MWB-21(S)c	Water	03/04/14 11:03	03/05/14 08:15
640-47048-12	MWB-17(S)c	Water	03/04/14 10:29	03/05/14 08:15
640-47048-13	MWB-17(I)c	Water	03/04/14 09:58	03/05/14 08:15
640-47048-14	MWB-17(D)c	Water	03/04/14 09:29	03/05/14 08:15
640-47048-15	MWB-19(S)c	Water	03/04/14 08:55	03/05/14 08:15
640-47048-16	MWB-19(I)c	Water	03/04/14 08:26	03/05/14 08:15
640-47048-17	MWB-19(D)c	Water	03/04/14 07:57	03/05/14 08:15
640-47048-18	MWB-20(S)c	Water	03/04/14 07:21	03/05/14 08:15
640-47048-19	Trip Blank 01 47048	Water	03/04/14 00:00	03/05/14 08:15
640-47063-1	MWB-3(I)b	Water	03/05/14 12:54	03/06/14 08:20
640-47063-2	MWB-3(S)b	Water	03/05/14 12:19	03/06/14 08:20
640-47063-3	MWB-31(D)b	Water	03/05/14 11:46	03/06/14 08:20
640-47063-4	MWB-2(S)b	Water	03/05/14 11:10	03/06/14 08:20
640-47063-5	MWB-2(I)b	Water	03/05/14 10:39	03/06/14 08:20
640-47063-6	MWB-34(S)d	Water	03/05/14 10:04	03/06/14 08:20
640-47063-7	MWB-34(I)d	Water	03/05/14 09:33	03/06/14 08:20
640-47063-8	MWB-34(D)d	Water	03/05/14 09:02	03/06/14 08:20
640-47063-9	MWB-27(S)c	Water	03/05/14 08:19	03/06/14 08:20
640-47063-10	MWB-27(I)c	Water	03/05/14 07:48	03/06/14 08:20
640-47063-11	MWB-27(D)c	Water	03/05/14 07:15	03/06/14 08:20
640-47063-12	MWB-7(D)c	Water	03/05/14 13:30	03/06/14 08:20
640-47063-13	MWB-7(1)c	Water	03/05/14 14:02	03/06/14 08:20
640-47063-14	MWB-7(S)c	Water	03/05/14 14:34	03/06/14 08:20
640-47063-15	Trip Blank 02 47063	Water	03/05/14 00:00	03/06/14 08:20
640-47084-1	SW-1	Water	03/06/14 11:15	03/07/14 08:15
640-47084-2	SW-2	Water	03/06/14 10:15	03/07/14 08:15
640-47084-3	SW-3	Water	03/06/14 10:45	03/07/14 08:15
640-47084-4	Trip Blank 03 47084	Water	03/06/14 00:00	03/07/14 08:15
640-47090-4	Field Blank 01 47090	Water	03/06/14 09:45	03/07/14 08:15
640-47090-5	Field Blank 02 47090	Water	03/06/14 11:35	03/07/14 08:15
640-47090-6	MWB-12(S)c	Water	03/06/14 09:33	03/07/14 08:15
640-47090-7	MWB-12(1)c	Water	03/06/14 08:52	03/07/14 08:15
640-47090-8	MWB-12(D)c	Water	03/06/14 08:21	03/07/14 08:15
640-47090-9	MWB-11(S)c	Water	03/06/14 07:44	03/07/14 08:15
640-47090-10	MWB-11(1)(R)c	Water	03/06/14 07:13	03/07/14 08:15
640-47090-11	Trip Blank 04 47090	Water	03/06/14 00:00	03/07/14 08:15

TestAmerica Tallahassee



Diversified Environmental Laboratories, Inc.

Amy Marks
Test America
2846 Industrial Plaza Dr
Tallahassee, FL 32301

March 10, 2014

Re: DELI Project Number: **140306.01**
Client Project Description: **Trail Ridge Landfill**
Client PO Number:

Dear Ms. Marks:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
26965	SW-1	03/06/14 11:15	03/06/14 13:17
26966	SW-2	03/06/14 10:15	03/06/14 13:17
26967	SW-3	03/06/14 10:45	03/06/14 13:17

If you have any questions or comments concerning this laboratory report, please do not hesitate to contact us.

Sincerely,

Franklin A. Risk, Jr.
Laboratory Director

Enclosures

This laboratory report consists of a cover page, case narrative page and report page. There may be multiple pages of each. The pages are numbered accordingly. The report may also contain chain of custody forms, project log in forms, QA/QC reports and client worksheets if applicable. The results herein relate only to the items tested or to the samples as received by the laboratory. The report shall not be reproduced except in full, without the written approval of the laboratory. All samples will be disposed of within 30 days of receipt, unless a written request to retain the samples longer is received. All samples referenced in this laboratory report are considered to be environmental samples. The case narrative will contain comments and or notes regarding the samples and analyses.

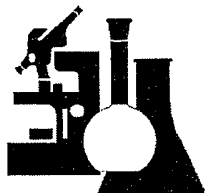
Cover Page 1 of 1

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

March 10, 2014

Test America
Amy Marks

Re: DELI Project Number: **140306.01**
Client Project Description: **Trail Ridge Landfill**

Enclosed is the case narrative for the above referenced project:

Sample 26965: Two dilutions were used (1:10 and 1:50) to calculate the final result as seen in the report.

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.

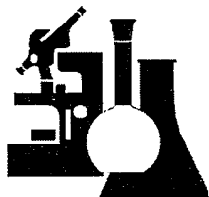
Narrative Page 1 of 1

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224



Phone 904.807.9625
Fax 904.807.9627
Email info@deliab.com
Website www.deliab.com



Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number
140306.01

Test America
Project Description
Trail Ridge Landfill

Report Date: March 10, 2014

DELI Sample Number 26965
Sample Designation SW-1

Matrix Non Potable Water
Date/Time Collected 03/06/14 11:15

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	67	B	cfu/100mL	1	1	1		ADA	03/06/14 14:30





Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number 140306.01
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Test America
Project Description Trail Ridge Landfill

Report Date: March 10, 2014

DELI Sample Number 26966
Sample Designation SW-2

Matrix Non Potable Water
Date/Time Collected 03/06/14 10:15

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	410		cfu/100mL	10	10	10		ADA	03/06/14 14:30





Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number
140306.01

Test America
Project Description
Trail Ridge Landfill

Report Date: March 10, 2014

DELI Sample Number 26967
Sample Designation SW-3

Matrix Non Potable Water
Date/Time Collected 03/06/14 10:45

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	575	B	cfu/100mL	50	50	50		ADA	03/06/14 14:30





Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number
140306.01

Test America
Project Description
Trail Ridge Landfill

Report Date: March 10, 2014

Footnotes

B	Results based upon colony counts outside the acceptable range.
NA	Not Applicable
ND	Not Detected/None Detected





Diversified Environmental Laboratories Inc.

Quality Control Data

Date Printed: March 10, 2014

QCData for Project Number 140306.01

Page QC-1 of 1

Batch No: **B6461**

Associated Samples

TestCode: **Coli Fec (MF) 9222D**

26965, 26966, 26967

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												26967	
Coliform, Fecal	<1 U											17	
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.

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

2846 Industrial Plaza Drive

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

Phone: 850.878.3994 Fax:

Chain of Custody Record

Defi Project # 140306.01

017162

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:[illegible]

Project Login Form

DELI Project Number: 140306.01 Client Name: Test America Tallahassee
 Date Received: 3-6-14 Received by: ADA PLF Completed by: ADA

Courier/Shipper Information:

☒ Client ☐ DEL, Inc. ☐ Other (describe) _____

Type & Number of Shipping Containers:

#	Shipping Container Description	Crushed Ice	Cooler/Ice Temp. C	Sample Cont. Temp. C
1	<u>Cooler</u> Box Other:	<u>Yes</u> No	<u>1.0</u>	<u>3.7</u>
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. #: 0332

Other Information Checklist:

	YES	NO	NA
1 Were custody seals used for shipping containers(s)?	☐	☒	☐
2 If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☒
3 Were custody seals used for sample containers(s)?	☐	☒	☐
4 If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☒
5 Did custody papers accompany samples? (such as COC, specifics, etc.)	☒	☐	☐
6 Were the custody papers properly filled out?	☒	☐	☐
7 Were the sample containers received in good condition? (If no, see comments)	☒	☐	☐
8 Were the sample container labels properly filled out? (date, time, preservation, etc.)	☒	☐	☐
9 Were the labels on the sample containers and custody papers consistent?	☒	☐	☐
10 Were the samples in the correct containers for analysis?	☒	☐	☐
11 Were the correct preservations used for each sample container according to analysis?	☒	☐	☐
12 Were the samples received within the appropriate holding times?	☒	☐	☐
13 Were pH preservation checks made?	☐	☒	☐
14 Were the sample containers provided by DEL, Inc.?	☐	☒	☐
15 Was this a sample kit provided by DEL, Inc.? If Yes, DEL, Inc. Kit #: <u>n/a</u>	☐	☒	☒
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?
<u>26965</u>	<u>Fecal Coliform</u>	<u>1</u>	<u>—</u>	<u>Yes</u> <u>(No)</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>100mL w/sterile</u>
<u>26967</u>				<u>Yes</u> / <u>No</u>				<u>Pill</u>
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				
				<u>Yes</u> / <u>No</u>				

P = Plastic; G = Glass; AG = Amber Glass; TL = Teflon Lid; WM = Wide Mouth

Comments:



ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945

Friday, March 14, 2014

TestAmerica - Tallahassee (TE021)

Attn: Amy Marks

2846 Industrial Plaza Drive

Tallahassee, FL 32301

RE: Laboratory Results for

Project Number: 640-47048, Project Name/Desc: Test America -

ENCO Workorder(s): A401287

Dear Amy Marks,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 7, 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: SW01		Lab ID: A401287-01		Sampled: 03/06/14 11:15		Received: 03/07/14 08:10
<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>	
SM 10200H-2001	03/08/14	11:15	03/21/14	03/07/14	14:00	03/10/14 12:15
Client ID: SW02		Lab ID: A401287-02		Sampled: 03/06/14 10:15		Received: 03/07/14 08:10
<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>	
SM 10200H-2001	03/08/14	10:15	03/21/14	03/07/14	14:00	03/10/14 12:15
Client ID: SW03		Lab ID: A401287-03		Sampled: 03/06/14 10:45		Received: 03/07/14 08:10
<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>	
SM 10200H-2001	03/08/14	10:45	03/21/14	03/07/14	14:00	03/10/14 12:15

SAMPLE DETECTION SUMMARY

Client ID: SW01		Lab ID: A401287-01					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	5.9		0.50	0.50	ug/L	SM 10200H-2001	
Client ID: SW02		Lab ID: A401287-02					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	0.53		0.50	0.50	ug/L	SM 10200H-2001	
Client ID: SW03		Lab ID: A401287-03					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	31		0.50	0.50	ug/L	SM 10200H-2001	

ANALYTICAL RESULTS

Description: SW01 **Lab Sample ID:** A401287-01 **Received:** 03/07/14 08:10
Matrix: Water **Sampled:** 03/06/14 11:15 **Work Order:** A401287
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]^	5.9		ug/L	1	0.50	0.50	4C07024	SM 10200H-2001	03/10/14 12:15	MN	

Description: SW02 **Lab Sample ID:** A401287-02 **Received:** 03/07/14 08:10
Matrix: Water **Sampled:** 03/06/14 10:15 **Work Order:** A401287
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]^	0.53		ug/L	1	0.50	0.50	4C07024	SM 10200H-2001	03/10/14 12:15	MN	

Description: SW03 **Lab Sample ID:** A401287-03 **Received:** 03/07/14 08:10
Matrix: Water **Sampled:** 03/06/14 10:45 **Work Order:** A401287
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]^	31		ug/L	1	0.50	0.50	4C07024	SM 10200H-2001	03/10/14 12:15	MN	

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C07024 - NO PREP

Blank (4C07024-BLK1)

Prepared: 03/07/2014 14:00 Analyzed: 03/10/2014 12:15

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	0.50	U	0.50	ug/L							

Duplicate (4C07024-DUP1)

Prepared: 03/07/2014 14:00 Analyzed: 03/10/2014 12:15

Source: A401287-03

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	32		0.50	ug/L		31			2	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.

2846 Industrial Plaza Drive

Tallahassee, FL 32301

Phone: 850.878.3994 Fax:

Chain of Custody Record

A401287

017161

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDOS ☒ RCRA ☐ Other:[illegible]

Med White 4°c

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWR 335	SAMPLE ID:		DATE: 3-4-14

PURGING DATA

[illegible]

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 ☒ 10 µm Filtration Equipment Type:				FILTER SIZE:			
FIELD DECONTAMINATION: PUMP Y ☒ 10 TUBING Y ☒ 10 (replaced)								DUPLICATE: Y ☒ 10							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD				SAMPLE PUMP FLOW RATE (mL per minute)		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH									
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET															
REMARKS: SHEEN: NO															
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)															
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = 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

PURGING DATA

WELL ELEVATION TOC (ft NGVD):	122.84	GROUNDWATER ELEVATION (ft NGVD):	112.69
-------------------------------	--------	----------------------------------	--------

$$= (19.15 \text{ feet} - 10.15 \text{ feet}) \times 0.163 \text{ gallons/foot} = 1.28 \text{ gallons}$$
$$= 0.3 \text{ gallons} + (0.006 \text{ gallons/foot} \times 18.00 \text{ feet}) + 0.05 \text{ gallons} = 0.46 \text{ gallons}$$

TIME	VOLUME PURGED (gallons)	CUMUL. 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
------	-------------------------------	-------------------------------	------------------------	--------------------------------	---------------------------	---------------	---	--	---------------------	-------------	-------	------

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

PUMP OR TUBING DEPTH IN WELL (feet):	3.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y ☒ N	FILTER SIZE:
---	------	--------------------------	---	--	--------------

FIELD DECONTAMINATION:		PUMP	Y	(N)	TUBING	Y	(N) (replaced)	Filtration Equipment Type:		
								DUPLICATE:	Y	(N)

REMARKS:

SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baiter; 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB175	SAMPLE ID:	DATE: 3-4-14	

PURGING DATA

WELL DIAMETER (Inches): 2	TUBING DIAMETER (Inches): 3/8	WELL SCREEN INTERVAL DEPTH: 8.3 feet to 18.3 feet	STATIC DEPTH TO WATER (feet): 6.38	PURGE PUMP TYPE OR BAILER: BP								
WELL ELEVATION TOC (ft NGVD): 138.31		GROUNDWATER ELEVATION (ft NGVD): 131.93										
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 18.30 feet) + 0.05 gallons = 0.46 gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.80	PURGING INITIATED AT: 1009	PURGING ENDED AT: 1029	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
1019	1.60	1.60	0.16	6.87	5.38	21.5	44	0.0	2.75	-17		
1022	0.48	2.08	0.16	6.88	5.40	21.6	45	0.0	6.58	-14		
1025	0.48	2.56	0.16	6.88	5.37	21.7	46	0.0	6.11	-16		
1028	0.48	3.04	0.16	6.89	5.38	21.7	46	0.0	6.31	-16	Very	
											LT. 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 / PRD-TECH				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1029		SAMPLING ENDED AT: NR	
PUMP OR TUBING DEPTH IN WELL (feet): 13.80				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y ☒ ①		FILTER SIZE: μm	
FIELD DECONTAMINATION: PUMP Y ☒ ①				TUBING Y ☒ ① (replaced)				DUPLICATE: Y ☒ ②			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET											
REMARKS: SHEEN: No											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19D	SAMPLE ID:		DATE: 3-4-14

PURGING DATA

WELL DIAMETER (Inches): 2		TUBING DIAMETER (Inches): 3/8		WELL SCREEN INTERVAL DEPTH: 105.5 feet to 115.5 feet		STATIC DEPTH TO WATER (feet): 6.30				PURGE PUMP TYPE OR BAILER: BP		
WELL ELEVATION TOC (# NGVD): 128.23					GROUNDWATER ELEVATION (# NGVD): 121.93							
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 115.50 feet) + 0.05 gallons = 1.04 gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50			PURGING INITIATED AT: 0733		PURGING ENDED AT: 0957		TOTAL VOLUME PURGED (gallons): 6.22		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0744	3.08	3.08	0.28	7.22	6.89	22.3	348	0.0	2.91	-32		
0748	1.12	4.20	0.28	7.23	6.92	22.3	347	0.0	3.61	-37		
0752	1.12	5.32	0.28	7.23	6.96	22.3	346	0.0	5.33	-40		
0756	1.12	6.44	0.28	7.24	6.95	22.3	346	0.0	4.89	-42	NONE	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 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): <i>[Signature]</i>				SAMPLING INITIATED AT: 0757		SAMPLING ENDED AT: NR	
PUMP OR TUBING DEPTH IN WELL (feet): 110.50				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y ☒ µm		FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (replaced)								DUPLICATE: Y ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET											
REMARKS: SHEN: No											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

PURGING DATA

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

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)

3/21/2014

PURGING DATA

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

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" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

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SAMPLING DATA

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

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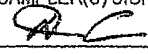
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 343	SAMPLE ID:	DATE: 3-5-14	

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): 8.54	PURGE PUMP TYPE OR BAILER: BP								
WELL ELEVATION TOC (ft NGVD): 125.78		GROUNDWATER ELEVATION (ft NGVD): 117.24										
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (18.36 feet - 8.54 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 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: 0944	PURGING ENDED AT: 1004	TOTAL VOLUME PURGED (gallons): 3.4								
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
0954	1.70	1.70	0.17	9.46	6.05	21.2	831	0.0	1.74	-40		
0957	0.51	2.21	0.17	9.47	6.05	21.3	826	0.1	1.52	-45		
1002	0.51	2.72	0.17	9.48	6.05	21.3	827	0.0	2.63	-46		
1003	0.51	3.23	0.17	9.47	6.04	21.3	828	0.0	2.30	-48	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" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 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: 1004		SAMPLING ENDED AT: NR	
PUMP OR TUBING DEPTH IN WELL (feet): 13.36				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y ☒ (N)		FILTER SIZE: NR	
FIELD DECONTAMINATION: PUMP Y ☒ (N)				TUBING Y ☒ (replaced)				DUPLICATE: Y ☒ (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET											
REMARKS: SHEEN: NO											
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)

PURGING DATA

SAMPLING DATA

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Form FD 9000-24

SAMPLING DATA

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)

Revision Date: February 12, 2009

PURGING DATA

WELL ELEVATION TOC (ft NGVD):	123.88	GROUNDWATER ELEVATION (ft NGVD):	123.88
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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
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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 10.00 feet) + 0.05 gallons = 0.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	PURGING INITIATED AT: 0650	PURGING ENDED AT: 0715	TOTAL VOLUME PURGED (gallons): 3.00
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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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

FIELD DECONTAMINATION:		PUMP	Y	(N)	TUBING	Y	(N)(replaced)		DUPLICATE:	Y	(N)
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REMARKS:

Typed: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other
(Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPF = 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

PURGING DATA

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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PURGING DATA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

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
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EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$
[illegible]

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

PUMP OR TUBING DEPTH IN WELL (feet):	22	TUBING MATERIAL CODE:	22	FIELD-FILTERED: ☒ ☐	FILTER SIZE: 0.45
				µm	micron
				Filtration Equipment Type: <u>Handmaid</u>	

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)

DUPLICATE: Y ☒

[illegible]

REMARKS:

SW-1 = SURFACE WATER POINT

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 = Baiter; 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

PURGING DATA

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

[illegible]

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

PUMP OR TUBING DEPTH IN WELL (feet):	22	TUBING MATERIAL CODE:	22	FIELD-FILTERED: ☒ ☐	FILTER SIZE: 0.45
				µm	
				Filtration Equipment Type:	FWLAMP-50

[illegible]

REMARKS:

SW-2 = 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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPF = 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

PURGING DATA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

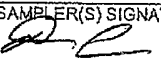
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.18; 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 DATA SAMPLING INITIATED AT: 1045				SAMPLING ENDED AT: NR			
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE: NA				FIELD-FILTERED: ☒ ☐ ☐ µm				FILTER SIZE: 0.45 µm			
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)								DUPLICATE: Y ☒ N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)		SAMPLING EQUIPMENT CODE			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH									
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET															
REMARKS: 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 = Baller; 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

[illegible]

	REMARKS:	FB COMPLETED USING D.I.H ₂ O PROVIDED BY TEST AMERICA	
	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)	

Revision Date: February 12, 2009

PURGING DATA

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 ³	gallons
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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

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.018
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

PUMP OR TUBING DEPTH IN WELL (feet):	KA	TUBING MATERIAL CODE:	KA	FIELD-FILTERED: Y ☒	FILTER SIZE:
				µm	
				Filteration Equipment Type:	

FIELD DECONTAMINATION:	PUMP	Y	N	S/A	TUBING	Y	N (replaced)	DUPLICATE:	Y	(N)
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[illegible]

REMARKS:	Shoen Present: YES NO FB2 COMPLETED USING D.T. H ₂ O PROV.050 BY TEST AMERICA
MATERIAL CODES:	AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES:	APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Sraw 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2), optionally ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE				SITE LOCATION: JACKSONVILLE, FL								
WELL NO: MWB12S				SAMPLE ID:				DATE: 3-6-14				
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): 9.62				PURGE PUMP TYPE OR BAILER: BP		
WELL ELEVATION TOC (ft NGVD): 124.63				GROUNDWATER ELEVATION (ft NGVD): 115.01								
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 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: 0913		PURGING ENDED AT: 0933		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
0923	1.70	1.70	0.17	9.78	5.71	20.8	243	0.4	6.48	73		
0926	0.51	2.21	0.17	9.78	5.72	20.8	243	0.4	6.30	73		
0929	0.51	2.72	0.17	9.79	5.75	20.8	243	0.4	6.30	74		
0932	0.51	3.23	0.17	9.79	5.74	20.8	242	0.4	6.68	74	VERY	
											LT. 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" = 0.008; 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: 0933		SAMPLING ENDED AT: NR		
PUMP OR TUBING DEPTH IN WELL (feet): 19.50				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y ☒ NO µm Filtration Equipment Type:			FILTER SIZE:		
FIELD DECONTAMINATION: PUMP Y ☒ NO				TUBING Y ☒ NO (replaced)		DUPLICATE: Y ☒ NO					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
REMARKS:											
				SHEEN: NO							
MATERIAL CODES:				AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
SAMPLING EQUIPMENT CODES:				APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = 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: $\pm 0.2^\circ\text{C}$; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater); Turbidity: all readings $\leq 20\text{ NTU}$; optionally $\pm 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

SAMPLING DATA												
SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRD-TECH				SAMPLER(S) SIGNATURE(S): <i>RC</i>				SAMPLING INITIATED AT: 0821		SAMPLING ENDED AT: NR		
PUMP OR TUBING DEPTH IN WELL (feet): 107.00				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y ☒ µm		FILTER SIZE:		
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (replaced)								DUPLICATE: Y ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET												
REMARKS: SHEEN, No												
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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

Revision Date: February 12, 2009

SAMPLING DATA

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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

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3/21/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

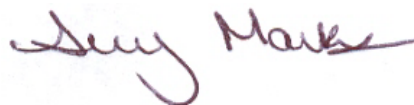
TestAmerica Job ID: 640-47303-1

Client Project/Site: Trail Ridge Landfill
Sampling Event: Semi-Annual Surface Water

For:

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

Attn: Mr. Mike Smilley



Authorized for release by:
4/14/2014 2:51:04 PM

Amy Marks, Project Manager II
(850)878-3994
amy.marks@testamericainc.com

LINKS

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 640-47303-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Metals

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.

General Chemistry

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

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
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)

Case Narrative

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

TestAmerica Job ID: 640-47303-1

Job ID: 640-47303-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative 640-47303-1

Comments

No additional comments.

Receipt

The samples were received on 3/28/2014 at 7:50 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) associated with batch 322420 recovered outside control limits for trans-1,3-Dichloropropene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the results have been reported and qualified.

No other analytical or quality issues were noted, other than those described 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 following samples were diluted due to the nature of the sample matrix: (640-47303-1 MS), (640-47303-1 MSD), SW-1 (640-47303-1). Elevated reporting limits (RLs) are provided. The samples are cloudy in appearance.

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

Field Service / Mobile Lab

Field data was collected and provided by Professional Technical Services.

General Chemistry

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

Subcontract Work

Method Fecal Coliform: This method was subcontracted to Diversified Environmental Laboratories.

Method Chlorophyll a: This method was subcontracted to ENCO-Orlando.

Detection Summary

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: SW-1

Lab Sample ID: 640-47303-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0029	I	0.0050	0.0020	ug/L	1		1631E	Total/NA
Barium	26		5.0	1.3	ug/L	1		6020	Total
Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Recoverable
Iron	180		100	33	ug/L	1		6020	Total
Lead	1.2	I	1.5	0.20	ug/L	1		6020	Recoverable
Hardness as calcium carbonate	120		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Total Suspended Solids	9.0		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	0.15		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	18		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	81	I	100	50	mg/L	10		SM 5220D	Total/NA
Nitrogen, Total	1.7		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.0014		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.8				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	345				umhos/cm	1		Field Sampling	Total/NA
Turbidity	37.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 01

Lab Sample ID: 640-47303-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	I	25	5.0	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: SW-1

Lab Sample ID: 640-47303-1

Date Collected: 03/27/14 11:00

Matrix: Water

Date Received: 03/28/14 07:50

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			04/02/14 13:46	1
Acrylonitrile	7.2	U	20	7.2	ug/L			04/02/14 13:46	1
Benzene	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
Bromoform	0.50	U	1.0	0.50	ug/L			04/02/14 13:46	1
Bromomethane	2.0	U	5.0	2.0	ug/L			04/02/14 13:46	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			04/02/14 13:46	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			04/02/14 13:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			04/02/14 13:46	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			04/02/14 13:46	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			04/02/14 13:46	1
Chloroethane	2.0	U	5.0	2.0	ug/L			04/02/14 13:46	1
Chloroform	0.14	U	1.0	0.14	ug/L			04/02/14 13:46	1
Chloromethane	0.33	U	1.0	0.33	ug/L			04/02/14 13:46	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 13:46	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			04/02/14 13:46	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			04/02/14 13:46	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			04/02/14 13:46	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			04/02/14 13:46	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			04/02/14 13:46	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/02/14 13:46	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			04/02/14 13:46	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			04/02/14 13:46	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			04/02/14 13:46	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
2-Hexanone	1.0	U	10	1.0	ug/L			04/02/14 13:46	1
Iodomethane	1.0	U	5.0	1.0	ug/L			04/02/14 13:46	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			04/02/14 13:46	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			04/02/14 13:46	1
Styrene	0.11	U	1.0	0.11	ug/L			04/02/14 13:46	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			04/02/14 13:46	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			04/02/14 13:46	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 13:46	1
Toluene	0.33	U	1.0	0.33	ug/L			04/02/14 13:46	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			04/02/14 13:46	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			04/02/14 13:46	1
trans-1,3-Dichloropropene	0.21	J U	1.0	0.21	ug/L			04/02/14 13:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			04/02/14 13:46	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			04/02/14 13:46	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			04/02/14 13:46	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			04/02/14 13:46	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			04/02/14 13:46	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			04/02/14 13:46	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			04/02/14 13:46	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			04/02/14 13:46	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: SW-1

Lab Sample ID: 640-47303-1

Date Collected: 03/27/14 11:00

Matrix: Water

Date Received: 03/28/14 07:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130		04/02/14 13:46	1
Dibromofluoromethane	94		70 - 130		04/02/14 13:46	1
Toluene-d8 (Surr)	102		70 - 130		04/02/14 13:46	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		03/28/14 15:45	03/28/14 20:57	1
EDB	0.0023	U	0.021	0.0023	ug/L		03/28/14 15:45	03/28/14 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	114		60 - 144	03/28/14 15:45	03/28/14 20:57	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0029	I	0.0050	0.0020	ug/L		04/01/14 16:10	04/08/14 12:27	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		03/31/14 09:23	04/01/14 22:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/31/14 09:23	04/01/14 22:40	1
Barium	26		5.0	1.3	ug/L		03/31/14 09:23	04/01/14 22:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/31/14 09:23	04/01/14 22:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/31/14 09:23	04/01/14 22:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/31/14 09:23	04/01/14 22:40	1
Cobalt	0.17	I	0.50	0.15	ug/L		03/31/14 09:23	04/01/14 22:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/31/14 09:23	04/05/14 20:11	1
Iron	180		100	33	ug/L		03/31/14 09:23	04/01/14 22:40	1
Lead	1.2	I	1.5	0.20	ug/L		03/31/14 09:23	04/01/14 22:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/31/14 09:23	04/01/14 22:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/31/14 09:23	04/01/14 22:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/31/14 09:23	04/01/14 22:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/31/14 09:23	04/01/14 22:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/31/14 09:23	04/01/14 22:40	1
Zinc	8.3	U	20	8.3	ug/L		03/31/14 09:23	04/01/14 22:40	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	120		3.3	3.3	mg/L			04/01/14 22:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	9.0		5.0	5.0	mg/L			04/02/14 11:58	1
Total Dissolved Solids	270		10	10	mg/L			04/02/14 12:31	1
Nitrate as N	0.15		0.050	0.010	mg/L			03/28/14 16:46	1
Phosphorus	0.041	U	0.10	0.041	mg/L		03/31/14 12:00	04/01/14 13:08	1
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/28/14 15:46	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/28/14 06:57	1
Total Organic Carbon	18		1.0	0.50	mg/L			04/04/14 20:27	1
Chemical Oxygen Demand	81	I	100	50	mg/L			04/03/14 16:02	10
Nitrogen, Total	1.7		0.25	0.25	mg/L			04/04/14 15:07	1
Unionized Ammonia	0.0014		0.00028	0.00028	mg/L			04/09/14 15:48	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: SW-1

Lab Sample ID: 640-47303-1

Date Collected: 03/27/14 11:00

Matrix: Water

Date Received: 03/28/14 07:50

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			03/27/14 11:00	1
Field pH	6.76				SU			03/27/14 11:00	1
Field Temperature	13.5				Degrees C			03/27/14 11:00	1
Oxygen, Dissolved	6.8				mg/L			03/27/14 11:00	1
Sheen	None				NONE			03/27/14 11:00	1
Specific Conductance	345				umhos/cm			03/27/14 11:00	1
Turbidity	37.0				NTU			03/27/14 11:00	1

Client Sample Results

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: Trip Blank 01

Lab Sample ID: 640-47303-2

Date Collected: 03/27/14 00:00

Matrix: Water

Date Received: 03/28/14 07:50

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.9	I	25	5.0	ug/L			04/02/14 12:46	1
Acrylonitrile	7.2	U	20	7.2	ug/L			04/02/14 12:46	1
Benzene	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			04/02/14 12:46	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
Bromoform	0.50	U	1.0	0.50	ug/L			04/02/14 12:46	1
Bromomethane	2.0	U	5.0	2.0	ug/L			04/02/14 12:46	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			04/02/14 12:46	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			04/02/14 12:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			04/02/14 12:46	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
Chloroethane	2.0	U	5.0	2.0	ug/L			04/02/14 12:46	1
Chloroform	0.14	U	1.0	0.14	ug/L			04/02/14 12:46	1
Chloromethane	0.33	U	1.0	0.33	ug/L			04/02/14 12:46	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			04/02/14 12:46	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			04/02/14 12:46	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			04/02/14 12:46	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			04/02/14 12:46	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			04/02/14 12:46	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			04/02/14 12:46	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/02/14 12:46	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 12:46	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			04/02/14 12:46	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			04/02/14 12:46	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			04/02/14 12:46	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			04/02/14 12:46	1
trans-1,3-Dichloropropene	0.21	J U	1.0	0.21	ug/L			04/02/14 12:46	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			04/02/14 12:46	1
2-Hexanone	1.0	U	10	1.0	ug/L			04/02/14 12:46	1
Iodomethane	1.0	U	5.0	1.0	ug/L			04/02/14 12:46	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			04/02/14 12:46	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			04/02/14 12:46	1
Styrene	0.11	U	1.0	0.11	ug/L			04/02/14 12:46	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			04/02/14 12:46	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			04/02/14 12:46	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 12:46	1
Toluene	0.33	U	1.0	0.33	ug/L			04/02/14 12:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			04/02/14 12:46	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			04/02/14 12:46	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			04/02/14 12:46	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:46	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			04/02/14 12:46	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			04/02/14 12:46	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			04/02/14 12:46	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			04/02/14 12:46	1

TestAmerica Tallahassee

Client Sample Results

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: Trip Blank 01

Lab Sample ID: 640-47303-2

Date Collected: 03/27/14 00:00

Matrix: Water

Date Received: 03/28/14 07:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	100		70 - 130		04/02/14 12:46	1
Dibromofluoromethane	97		70 - 130		04/02/14 12:46	1
Toluene-d8 (Surr)	98		70 - 130		04/02/14 12:46	1

Surrogate Summary

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

TestAmerica Job ID: 640-47303-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
640-47303-1	SW-1	102	94	102
640-47303-2	Trip Blank 01	100	97	98
LCS 680-322420/4	Lab Control Sample	116	109	112
LCSD 680-322420/5	Lab Control Sample Dup	109	103	106
MB 680-322420/8	Method Blank	99	96	98

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA2 (60-144)		
640-47303-1	SW-1	114		

Surrogate Legend

PCA = Pentachloroethane

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA1 (60-144)		
LCS 680-321836/11-A	Lab Control Sample	107		
LCSD 680-321836/12-A	Lab Control Sample Dup	101		
MB 680-321836/10-A	Method Blank	103		

Surrogate Legend

PCA = Pentachloroethane

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: MB 680-322420/8

Matrix: Water

Analysis Batch: 322420

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			04/02/14 12:13	1
Acrylonitrile	7.2	U	20	7.2	ug/L			04/02/14 12:13	1
Benzene	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
Bromoform	0.50	U	1.0	0.50	ug/L			04/02/14 12:13	1
Bromomethane	2.0	U	5.0	2.0	ug/L			04/02/14 12:13	1
2-Butanone (MEK)	1.0	U	10	1.0	ug/L			04/02/14 12:13	1
Carbon disulfide	0.60	U	2.0	0.60	ug/L			04/02/14 12:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	ug/L			04/02/14 12:13	1
Chlorobenzene	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
Chlorobromomethane	0.14	U	1.0	0.14	ug/L			04/02/14 12:13	1
Chloroethane	2.0	U	5.0	2.0	ug/L			04/02/14 12:13	1
Chloroform	0.14	U	1.0	0.14	ug/L			04/02/14 12:13	1
Chlorodibromomethane	0.10	U	1.0	0.10	ug/L			04/02/14 12:13	1
Chloromethane	0.33	U	1.0	0.33	ug/L			04/02/14 12:13	1
1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44	ug/L			04/02/14 12:13	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			04/02/14 12:13	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			04/02/14 12:13	1
1,4-Dichlorobenzene	0.28	U	1.0	0.28	ug/L			04/02/14 12:13	1
Dichlorobromomethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
1,1-Dichloroethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 12:13	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/02/14 12:13	1
1,1-Dichloroethene	0.11	U	1.0	0.11	ug/L			04/02/14 12:13	1
1,2-Dichloropropane	0.13	U	1.0	0.13	ug/L			04/02/14 12:13	1
cis-1,3-Dichloropropene	0.11	U	1.0	0.11	ug/L			04/02/14 12:13	1
Ethylene Dibromide	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
Ethylbenzene	0.11	U	1.0	0.11	ug/L			04/02/14 12:13	1
2-Hexanone	1.0	U	10	1.0	ug/L			04/02/14 12:13	1
Iodomethane	1.0	U	5.0	1.0	ug/L			04/02/14 12:13	1
Methylene Chloride	1.0	U	5.0	1.0	ug/L			04/02/14 12:13	1
4-Methyl-2-pentanone (MIBK)	1.0	U	10	1.0	ug/L			04/02/14 12:13	1
Styrene	0.11	U	1.0	0.11	ug/L			04/02/14 12:13	1
1,1,1,2-Tetrachloroethane	0.33	U	1.0	0.33	ug/L			04/02/14 12:13	1
1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	ug/L			04/02/14 12:13	1
Tetrachloroethene	0.15	U	1.0	0.15	ug/L			04/02/14 12:13	1
Toluene	0.33	U	1.0	0.33	ug/L			04/02/14 12:13	1
trans-1,4-Dichloro-2-butene	0.50	U	2.0	0.50	ug/L			04/02/14 12:13	1
trans-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			04/02/14 12:13	1
trans-1,3-Dichloropropene	0.21	U	1.0	0.21	ug/L			04/02/14 12:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	ug/L			04/02/14 12:13	1
1,1,2-Trichloroethane	0.13	U	1.0	0.13	ug/L			04/02/14 12:13	1
Trichloroethene	0.13	U	1.0	0.13	ug/L			04/02/14 12:13	1
Trichlorofluoromethane	0.25	U	1.0	0.25	ug/L			04/02/14 12:13	1
1,2,3-Trichloropropane	0.41	U	1.0	0.41	ug/L			04/02/14 12:13	1
Vinyl acetate	0.28	U	2.0	0.28	ug/L			04/02/14 12:13	1
Vinyl chloride	0.18	U	1.0	0.18	ug/L			04/02/14 12:13	1
Xylenes, Total	0.20	U	2.0	0.20	ug/L			04/02/14 12:13	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: MB 680-322420/8

Matrix: Water

Analysis Batch: 322420

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/02/14 12:13	1
Dibromofluoromethane	96		70 - 130		04/02/14 12:13	1
Toluene-d8 (Surr)	98		70 - 130		04/02/14 12:13	1

Lab Sample ID: LCS 680-322420/4

Matrix: Water

Analysis Batch: 322420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	94.7		ug/L		95	39 - 162
Benzene	50.0	51.6		ug/L		103	74 - 123
Bromoform	50.0	58.2		ug/L		116	60 - 134
Bromomethane	50.0	44.8		ug/L		90	10 - 171
2-Butanone (MEK)	100	91.9		ug/L		92	55 - 142
Carbon disulfide	50.0	54.1		ug/L		108	63 - 142
Carbon tetrachloride	50.0	59.1		ug/L		118	70 - 131
Chlorobenzene	50.0	55.2		ug/L		110	79 - 120
Chlorobromomethane	50.0	51.1		ug/L		102	60 - 136
Chloroethane	50.0	60.7		ug/L		121	47 - 148
Chloroform	50.0	54.4		ug/L		109	76 - 128
Chlorodibromomethane	50.0	67.1		ug/L		134	63 - 134
Chloromethane	50.0	31.8		ug/L		64	47 - 151
1,2-Dibromo-3-Chloropropane	50.0	52.1		ug/L		104	57 - 126
Dibromomethane	50.0	55.0		ug/L		110	75 - 122
1,2-Dichlorobenzene	50.0	54.4		ug/L		109	77 - 124
1,4-Dichlorobenzene	50.0	55.0		ug/L		110	76 - 124
Dichlorobromomethane	50.0	61.6		ug/L		123	72 - 129
1,1-Dichloroethane	50.0	53.0		ug/L		106	69 - 132
cis-1,2-Dichloroethene	50.0	53.0		ug/L		106	78 - 127
1,2-Dichloroethane	50.0	56.8		ug/L		114	75 - 120
1,1-Dichloroethene	50.0	50.2		ug/L		100	73 - 134
1,2-Dichloropropane	50.0	53.3		ug/L		107	71 - 126
cis-1,3-Dichloropropene	50.0	60.3		ug/L		121	73 - 128
Ethylene Dibromide	50.0	57.6		ug/L		115	75 - 127
Ethylbenzene	50.0	57.3		ug/L		115	78 - 125
2-Hexanone	100	112		ug/L		112	52 - 149
Methylene Chloride	50.0	53.7		ug/L		107	79 - 124
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	51 - 143
Styrene	50.0	58.3		ug/L		117	75 - 129
1,1,1,2-Tetrachloroethane	50.0	62.7		ug/L		125	68 - 132
1,1,1,2,2-Tetrachloroethane	50.0	53.5		ug/L		107	71 - 127
Tetrachloroethene	50.0	57.2		ug/L		114	77 - 128
Toluene	50.0	54.8		ug/L		110	77 - 125
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	78 - 130
trans-1,3-Dichloropropene	50.0	67.6	J	ug/L		135	72 - 127
1,1,1-Trichloroethane	50.0	62.6		ug/L		125	76 - 126
1,1,2-Trichloroethane	50.0	54.8		ug/L		110	69 - 127
Trichloroethene	50.0	56.0		ug/L		112	80 - 120

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: LCS 680-322420/4

Matrix: Water

Analysis Batch: 322420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	57.3		ug/L		115	66 - 144
1,2,3-Trichloropropane	50.0	54.7		ug/L		109	74 - 126
Vinyl acetate	100	108		ug/L		108	10 - 200
Vinyl chloride	50.0	48.7		ug/L		97	58 - 141
Xylenes, Total	150	173		ug/L		115	80 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	116		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	112		70 - 130

Lab Sample ID: LCSD 680-322420/5

Matrix: Water

Analysis Batch: 322420

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	100	86.4		ug/L		86	39 - 162	9	50
Benzene	50.0	48.4		ug/L		97	74 - 123	6	30
Bromoform	50.0	54.7		ug/L		109	60 - 134	6	30
Bromomethane	50.0	40.7		ug/L		81	10 - 171	10	50
2-Butanone (MEK)	100	87.2		ug/L		87	55 - 142	5	30
Carbon disulfide	50.0	50.5		ug/L		101	63 - 142	7	30
Carbon tetrachloride	50.0	55.8		ug/L		112	70 - 131	6	30
Chlorobenzene	50.0	51.4		ug/L		103	79 - 120	7	30
Chlorobromomethane	50.0	48.5		ug/L		97	60 - 136	5	30
Chloroethane	50.0	53.6		ug/L		107	47 - 148	12	40
Chloroform	50.0	52.2		ug/L		104	76 - 128	4	30
Chlorodibromomethane	50.0	61.6		ug/L		123	63 - 134	9	50
Chloromethane	50.0	32.5		ug/L		65	47 - 151	2	30
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/L		108	57 - 126	4	50
Dibromomethane	50.0	52.1		ug/L		104	75 - 122	5	30
1,2-Dichlorobenzene	50.0	55.7		ug/L		111	77 - 124	2	30
1,4-Dichlorobenzene	50.0	56.9		ug/L		114	76 - 124	3	30
Dichlorobromomethane	50.0	57.9		ug/L		116	72 - 129	6	30
1,1-Dichloroethane	50.0	50.5		ug/L		101	69 - 132	5	30
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	78 - 127	7	30
1,2-Dichloroethane	50.0	52.8		ug/L		106	75 - 120	7	30
1,1-Dichloroethene	50.0	49.7		ug/L		99	73 - 134	1	30
1,2-Dichloropropane	50.0	50.2		ug/L		100	71 - 126	6	30
cis-1,3-Dichloropropene	50.0	58.3		ug/L		117	73 - 128	3	30
Ethylene Dibromide	50.0	55.0		ug/L		110	75 - 127	5	30
Ethylbenzene	50.0	54.8		ug/L		110	78 - 125	4	30
2-Hexanone	100	105		ug/L		105	52 - 149	7	30
Methylene Chloride	50.0	49.1		ug/L		98	79 - 124	9	30
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	51 - 143	5	30
Styrene	50.0	54.1		ug/L		108	75 - 129	7	30
1,1,1,2-Tetrachloroethane	50.0	58.9		ug/L		118	68 - 132	6	30
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	71 - 127	3	30

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: LCSD 680-322420/5

Matrix: Water

Analysis Batch: 322420

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
Tetrachloroethene	50.0	55.4		ug/L		111	77 - 128	3	30
Toluene	50.0	52.0		ug/L		104	77 - 125	5	30
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	78 - 130	3	30
trans-1,3-Dichloropropene	50.0	61.7		ug/L		123	72 - 127	9	50
1,1,1-Trichloroethane	50.0	60.0		ug/L		120	76 - 126	4	30
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	69 - 127	7	30
Trichloroethene	50.0	54.1		ug/L		108	80 - 120	3	30
Trichlorofluoromethane	50.0	52.8		ug/L		106	66 - 144	8	30
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	74 - 126	3	30
Vinyl acetate	100	113		ug/L		113	10 - 200	5	30
Vinyl chloride	50.0	50.7		ug/L		101	58 - 141	4	30
Xylenes, Total	150	163		ug/L		108	80 - 124	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	109		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	106		70 - 130

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

Lab Sample ID: MB 680-321836/10-A

Matrix: Water

Analysis Batch: 321880

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 321836

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0050	U	0.020	0.0050	ug/L		03/28/14 15:45	03/28/14 19:14	1
EDB	0.0022	U	0.020	0.0022	ug/L		03/28/14 15:45	03/28/14 19:14	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	103		60 - 144	03/28/14 15:45	03/28/14 19:14	1

Lab Sample ID: LCS 680-321836/11-A

Matrix: Water

Analysis Batch: 321880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DBCP	0.100	0.0953		ug/L		95	70 - 148
EDB	0.100	0.0944		ug/L		94	66 - 126

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
Pentachloroethane	107		60 - 144

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: LCSD 680-321836/12-A

Matrix: Water

Analysis Batch: 321880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 321836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.100	0.0995		ug/L		100	70 - 148	4	30
EDB	0.100	0.0950		ug/L		95	66 - 126	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Pentachloroethane	101		60 - 144

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

Lab Sample ID: MB 400-213041/1-A

Matrix: Water

Analysis Batch: 213127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 213041

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		04/08/14 08:31	04/08/14 08:54	1

Lab Sample ID: LCS 400-213041/2-A

Matrix: Water

Analysis Batch: 213127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 213041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00550		ug/L		110	79 - 121

Lab Sample ID: LCSD 400-213041/3-A

Matrix: Water

Analysis Batch: 213127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 213041

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.00536		ug/L		107	79 - 121	3	20

Lab Sample ID: 640-47303-1 MS

Matrix: Water

Analysis Batch: 213127

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 213041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0029	I	0.0500	0.0128	J	ug/L		20	71 - 125

Lab Sample ID: 640-47303-1 MSD

Matrix: Water

Analysis Batch: 213127

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 213041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0029	I	0.0500	0.0135	J	ug/L		21	71 - 125	5	24

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-322039/1-A
Matrix: Water
Analysis Batch: 322511

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322039

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/31/14 09:23	04/01/14 21:03	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/31/14 09:23	04/01/14 21:03	1
Barium	1.3	U	5.0	1.3	ug/L		03/31/14 09:23	04/01/14 21:03	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/31/14 09:23	04/01/14 21:03	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/31/14 09:23	04/01/14 21:03	1
Chromium	2.5	U	5.0	2.5	ug/L		03/31/14 09:23	04/01/14 21:03	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/31/14 09:23	04/01/14 21:03	1
Iron	33	U	100	33	ug/L		03/31/14 09:23	04/01/14 21:03	1
Lead	0.20	U	1.5	0.20	ug/L		03/31/14 09:23	04/01/14 21:03	1
Nickel	2.0	U	5.0	2.0	ug/L		03/31/14 09:23	04/01/14 21:03	1
Selenium	1.0	U	2.5	1.0	ug/L		03/31/14 09:23	04/01/14 21:03	1
Silver	0.25	U	1.0	0.25	ug/L		03/31/14 09:23	04/01/14 21:03	1
Thallium	0.50	U	1.0	0.50	ug/L		03/31/14 09:23	04/01/14 21:03	1
Vanadium	3.8	U	10	3.8	ug/L		03/31/14 09:23	04/01/14 21:03	1
Zinc	8.3	U	20	8.3	ug/L		03/31/14 09:23	04/01/14 21:03	1

Lab Sample ID: MB 680-322039/1-A
Matrix: Water
Analysis Batch: 323229

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322039

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	U	5.0	1.1	ug/L		03/31/14 09:23	04/05/14 19:28	1

Lab Sample ID: LCS 680-322039/2-A
Matrix: Water
Analysis Batch: 322511

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.9		ug/L		98	75 - 125
Arsenic	100	104		ug/L		104	75 - 125
Barium	100	104		ug/L		104	75 - 125
Beryllium	50.0	48.3		ug/L		97	75 - 125
Cadmium	50.0	50.6		ug/L		101	75 - 125
Calcium	5.00	5.38		mg/L		108	75 - 125
Chromium	100	103		ug/L		103	75 - 125
Cobalt	50.0	51.5		ug/L		103	75 - 125
Iron	5000	4820		ug/L		96	75 - 125
Lead	50.0	53.6		ug/L		107	75 - 125
Magnesium	5.00	5.36		mg/L		107	75 - 125
Nickel	100	105		ug/L		105	75 - 125
Selenium	100	103		ug/L		103	75 - 125
Silver	50.0	53.8		ug/L		108	75 - 125
Thallium	40.0	42.2		ug/L		106	75 - 125
Vanadium	100	101		ug/L		101	75 - 125
Zinc	100	100		ug/L		100	75 - 125

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

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

Lab Sample ID: LCS 680-322039/2-A
Matrix: Water
Analysis Batch: 323229

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	100	123		ug/L		123	75 - 125

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

Lab Sample ID: MB 680-323496/13
Matrix: Water
Analysis Batch: 323496

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			04/01/14 21:03	1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-322484/1
Matrix: Water
Analysis Batch: 322484

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			04/02/14 11:22	1

Lab Sample ID: LCS 680-322484/2
Matrix: Water
Analysis Batch: 322484

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	100	85.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 680-322484/3
Matrix: Water
Analysis Batch: 322484

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	100	104		mg/L		104	80 - 120	20	25

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-322498/1
Matrix: Water
Analysis Batch: 322498

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			04/02/14 12:31	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-322498/2

Matrix: Water

Analysis Batch: 322498

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	110		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-322498/3

Matrix: Water

Analysis Batch: 322498

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	117		mg/L		107	80 - 120	6	25

Lab Sample ID: 640-47303-1 DU

Matrix: Water

Analysis Batch: 322498

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	270		272		mg/L		2	25

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-321881/13

Matrix: Water

Analysis Batch: 321881

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.010	U	0.050	0.010	mg/L			03/28/14 16:37	1

Lab Sample ID: LCS 680-321881/14

Matrix: Water

Analysis Batch: 321881

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	1.03		mg/L		103	90 - 110
Nitrite as N	0.500	0.506		mg/L		101	90 - 110

Lab Sample ID: 640-47303-1 MS

Matrix: Water

Analysis Batch: 321881

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
Nitrate Nitrite as N	0.18		1.00	1.18		mg/L		99	90 - 110
Nitrite as N	0.031		0.500	0.533		mg/L		100	90 - 110

Lab Sample ID: 640-47303-1 MSD

Matrix: Water

Analysis Batch: 321881

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
Nitrate Nitrite as N	0.18		1.00	1.17		mg/L		99	90 - 110	0	10
Nitrite as N	0.031		0.500	0.536		mg/L		101	90 - 110	1	10

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-322169/2-A
Matrix: Water
Analysis Batch: 322332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322169

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/31/14 12:00	04/01/14 12:43	1

Lab Sample ID: LCS 680-322169/1-A
Matrix: Water
Analysis Batch: 322332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.02		mg/L		101	60 - 140

Method: 4500 P F-2011 - Orthophosphate, Automated Ascorbic Acid Method

Lab Sample ID: MB 680-321875/2
Matrix: Water
Analysis Batch: 321875

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.016	U	0.050	0.016	mg/L			03/28/14 15:46	1

Lab Sample ID: LCS 680-321875/1
Matrix: Water
Analysis Batch: 321875

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	1.20	1.21		mg/L		101	90 - 110

Lab Sample ID: 640-47303-1 MS
Matrix: Water
Analysis Batch: 321875

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
Orthophosphate	0.016	U	1.00	0.992		mg/L		99	90 - 110

Lab Sample ID: 640-47303-1 MSD
Matrix: Water
Analysis Batch: 321875

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 Limit
Orthophosphate	0.016	U	1.00	1.01		mg/L		101	90 - 110	1 30

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-321917/1
Matrix: Water
Analysis Batch: 321917

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

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/28/14 06:57	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

Method: 5210B-2011 - BOD, 5-Day (Continued)

Lab Sample ID: LCS 680-321917/2

Matrix: Water

Analysis Batch: 321917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	199		mg/L		100	85 - 115

Lab Sample ID: LCSD 680-321917/3

Matrix: Water

Analysis Batch: 321917

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	185		mg/L		94	85 - 115	7	30

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-323110/14

Matrix: Water

Analysis Batch: 323110

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			04/04/14 22:40	1

Lab Sample ID: LCS 680-323110/5

Matrix: Water

Analysis Batch: 323110

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	19.3		mg/L		96	80 - 120

Lab Sample ID: 640-47303-1 MS

Matrix: Water

Analysis Batch: 323110

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	18		20.0	37.3		mg/L		95	80 - 120

Lab Sample ID: 640-47303-1 MSD

Matrix: Water

Analysis Batch: 323110

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	18		20.0	37.1		mg/L		94	80 - 120	1	25

Method: SM 5220D - COD

Lab Sample ID: MB 680-322867/3

Matrix: Water

Analysis Batch: 322867

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			04/03/14 16:02	1

TestAmerica Tallahassee

QC Sample Results

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

TestAmerica Job ID: 640-47303-1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 680-322867/4

Matrix: Water

Analysis Batch: 322867

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	52.1		mg/L		104	90 - 110

QC Association Summary

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

TestAmerica Job ID: 640-47303-1

GC/MS VOA

Analysis Batch: 322420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	8260B	
640-47303-2	Trip Blank 01	Total/NA	Water	8260B	
LCS 680-322420/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-322420/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-322420/8	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 321836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	8011	
LCS 680-321836/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-321836/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-321836/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 321880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	8011	321836
LCS 680-321836/11-A	Lab Control Sample	Total/NA	Water	8011	321836
LCSD 680-321836/12-A	Lab Control Sample Dup	Total/NA	Water	8011	321836
MB 680-321836/10-A	Method Blank	Total/NA	Water	8011	321836

Metals

Prep Batch: 213041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	1631E	
640-47303-1 MS	SW-1	Total/NA	Water	1631E	
640-47303-1 MSD	SW-1	Total/NA	Water	1631E	
LCS 400-213041/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-213041/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-213041/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 213127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	1631E	213041
640-47303-1 MS	SW-1	Total/NA	Water	1631E	213041
640-47303-1 MSD	SW-1	Total/NA	Water	1631E	213041
LCS 400-213041/2-A	Lab Control Sample	Total/NA	Water	1631E	213041
LCSD 400-213041/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	213041
MB 400-213041/1-A	Method Blank	Total/NA	Water	1631E	213041

Prep Batch: 322039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total Recoverable	Water	3005A	
LCS 680-322039/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-322039/1-A	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47303-1

Metals (Continued)

Analysis Batch: 322511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total Recoverable	Water	6020	322039
LCS 680-322039/2-A	Lab Control Sample	Total Recoverable	Water	6020	322039
MB 680-322039/1-A	Method Blank	Total Recoverable	Water	6020	322039

Analysis Batch: 323229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total Recoverable	Water	6020	322039
LCS 680-322039/2-A	Lab Control Sample	Total Recoverable	Water	6020	322039
MB 680-322039/1-A	Method Blank	Total Recoverable	Water	6020	322039

Analysis Batch: 323496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	SM 2340B	
MB 680-323496/13	Method Blank	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 108638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	UnionizedNH3	

Analysis Batch: 321875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	4500 P F-2011	
640-47303-1 MS	SW-1	Total/NA	Water	4500 P F-2011	
640-47303-1 MSD	SW-1	Total/NA	Water	4500 P F-2011	
LCS 680-321875/1	Lab Control Sample	Total/NA	Water	4500 P F-2011	
MB 680-321875/2	Method Blank	Total/NA	Water	4500 P F-2011	

Analysis Batch: 321881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	353.2	
640-47303-1 MS	SW-1	Total/NA	Water	353.2	
640-47303-1 MSD	SW-1	Total/NA	Water	353.2	
LCS 680-321881/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-321881/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 321917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	5210B-2011	
LCS 680-321917/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-321917/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-321917/1	Method Blank	Total/NA	Water	5210B-2011	

Prep Batch: 322169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	Digestion	
LCS 680-322169/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-322169/2-A	Method Blank	Total/NA	Water	Digestion	

TestAmerica Tallahassee

QC Association Summary

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

TestAmerica Job ID: 640-47303-1

General Chemistry (Continued)

Analysis Batch: 322332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	365.4	322169
LCS 680-322169/1-A	Lab Control Sample	Total/NA	Water	365.4	322169
MB 680-322169/2-A	Method Blank	Total/NA	Water	365.4	322169

Analysis Batch: 322484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	2540 D-2011	
LCS 680-322484/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-322484/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-322484/1	Method Blank	Total/NA	Water	2540 D-2011	

Analysis Batch: 322498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	2540C-2011	
640-47303-1 DU	SW-1	Total/NA	Water	2540C-2011	
LCS 680-322498/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-322498/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
MB 680-322498/1	Method Blank	Total/NA	Water	2540C-2011	

Analysis Batch: 322867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	SM 5220D	
LCS 680-322867/4	Lab Control Sample	Total/NA	Water	SM 5220D	
MB 680-322867/3	Method Blank	Total/NA	Water	SM 5220D	

Analysis Batch: 322970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	Total Nitrogen	

Analysis Batch: 323110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	5310 B-2011	
640-47303-1 MS	SW-1	Total/NA	Water	5310 B-2011	
640-47303-1 MSD	SW-1	Total/NA	Water	5310 B-2011	
LCS 680-323110/5	Lab Control Sample	Total/NA	Water	5310 B-2011	
MB 680-323110/14	Method Blank	Total/NA	Water	5310 B-2011	

Field Service / Mobile Lab

Analysis Batch: 108458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47303-1	SW-1	Total/NA	Water	Field Sampling	

TestAmerica Tallahassee

Lab Chronicle

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

TestAmerica Job ID: 640-47303-1

Client Sample ID: SW-1

Date Collected: 03/27/14 11:00

Date Received: 03/28/14 07:50

Lab Sample ID: 640-47303-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	322420	04/02/14 13:46	TF1	TAL SAV
Total/NA	Prep	8011			321836	03/28/14 15:45	SSP	TAL SAV
Total/NA	Analysis	8011		1	321880	03/28/14 20:57	JCK	TAL SAV
Total/NA	Prep	1631E			213041	04/01/14 16:10	VLC	TAL PEN
Total/NA	Analysis	1631E		1	213127	04/08/14 12:27	VLC	TAL PEN
Total Recoverable	Prep	3005A			322039	03/31/14 09:23	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	322511	04/01/14 22:40	BWR	TAL SAV
Total Recoverable	Prep	3005A			322039	03/31/14 09:23	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	323229	04/05/14 20:11	BWR	TAL SAV
Total/NA	Analysis	SM 2340B		1	323496	04/01/14 22:40	CME	TAL SAV
Total/NA	Analysis	2540 D-2011		1	322484	04/02/14 11:58	LBH	TAL SAV
Total/NA	Analysis	2540C-2011		1	322498	04/02/14 12:31	LBH	TAL SAV
Total/NA	Analysis	353.2		1	321881	03/28/14 16:46	GRX	TAL SAV
Total/NA	Prep	Digestion			322169	03/31/14 12:00	ANH	TAL SAV
Total/NA	Analysis	365.4		1	322332	04/01/14 13:08	CMP	TAL SAV
Total/NA	Analysis	4500 P F-2011		1	321875	03/28/14 15:46	GRX	TAL SAV
Total/NA	Analysis	5210B-2011		1	321917	03/28/14 06:57	OLB	TAL SAV
Total/NA	Analysis	5310 B-2011		1	323110	04/04/14 20:27	CMP	TAL SAV
Total/NA	Analysis	SM 5220D		10	322867	04/03/14 16:02	JER	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	322970	04/04/14 15:07	JER	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	108638	04/09/14 15:48	TJW	TAL TAL
Total/NA	Analysis	Field Sampling		1	108458	03/27/14 11:00	FDS	TAL TAL

Client Sample ID: Trip Blank 01

Date Collected: 03/27/14 00:00

Date Received: 03/28/14 07:50

Lab Sample ID: 640-47303-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	322420	04/02/14 12:46	TF1	TAL SAV

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

TestAmerica Tallahassee

Certification Summary

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

TestAmerica Job ID: 640-47303-1

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	06-30-14
Georgia	State Program	4		06-30-14
Louisiana	NELAP	6	30663	06-30-14
New Jersey	NELAP	2	FL012	06-30-14
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

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	06-30-14
Arkansas DEQ	State Program	6	88-0689	09-01-14
Florida	NELAP	4	E81010	06-30-14
Georgia	State Program	4	N/A	06-30-14
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	06-30-14
Maryland	State Program	3	233	09-30-14
Massachusetts	State Program	1	M-FL094	06-30-14
Michigan	State Program	5	9912	05-04-14
New Jersey	NELAP	2	FL006	06-30-14
North Carolina DENR	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	06-30-14
Texas	NELAP	6	T104704286-12-5	09-30-14
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-14
West Virginia DEP	State Program	3	136	06-30-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tallahassee

Certification Summary

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

TestAmerica Job ID: 640-47303-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-15
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tallahassee

Method Summary

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

TestAmerica Job ID: 640-47303-1

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
1631E	Mercury, Low Level (CVAFS)	EPA	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL SAV
SM 2340B	Total Hardness (as CaCO ₃) 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
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
4500 P F-2011	Orthophosphate, Automated Ascorbic Acid Method	SM	TAL SAV
5210B-2011	BOD, 5-Day	SM	TAL SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
UnionizedNH ₃	Ammonia, Unionized	FL-DEP	TAL TAL
Field Sampling	Field Sampling	EPA	TAL TAL
9222D Fecal Coliform	SM 9222D Fecal Coliform by MF	NONE	
(Diversified) 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

TestAmerica Tallahassee

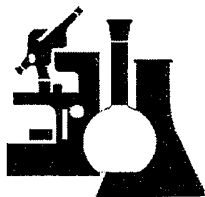
Sample Summary

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

TestAmerica Job ID: 640-47303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-47303-1	SW-1	Water	03/27/14 11:00	03/28/14 07:50
640-47303-2	Trip Blank 01	Water	03/27/14 00:00	03/28/14 07:50

- 1
- 2
- 3
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- 16



Diversified Environmental Laboratories, Inc.

Amy Marks
Test America
2846 Industrial Plaza Dr
Tallahassee, FL 32301

March 31, 2014

Re: DELI Project Number: **140327.03**
Client PO Number:
Client Project Description: **Trail Ridge**

Dear Ms. Marks:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
27260	SW-1	03/27/14 11:00	03/27/14 13:40

If you have any questions or comments concerning this laboratory report, please do not hesitate to contact us.

Sincerely,

Franklin A. Risk, Jr.
Laboratory Director

Enclosures

This laboratory report consists of a cover page, case narrative page and report page. There may be multiple pages of each. The pages are numbered accordingly. The report may also contain chain of custody forms, project log in forms, QA/QC reports and client worksheets if applicable. The results herein relate only to the items tested or to the samples as received by the laboratory. The report shall not be reproduced except in full, without the written approval of the laboratory. All samples will be disposed of within 30 days of receipt, unless a written request to retain the samples longer is received. All samples referenced in this laboratory report are considered to be environmental samples. The case narrative will contain comments and or notes regarding the samples and analyses.

Cover Page 1 of 1

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

March 31, 2014

Test America
Amy Marks

Re: DELI Project Number: **140327.03**
Client Project Description: **Trail Ridge**

Enclosed is the case narrative for the above referenced project:

Three dilutions were performed on sample 27260: 1:2, 1:5 and 1:10. All dilutions were too numerous to count and the result is calculated accordingly.

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.

Narrative Page 1 of 1

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
140327.03

Test America
Project Description
Trail Ridge

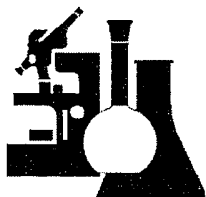
Report Date: March 31, 2014

DELI Sample Number 27260
Sample Designation SW-1

Matrix Non Potable Water
Date/Time Collected 03/27/14 11:00

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	600	Z	cfu/100mL	10	10	10		ADA	03/27/14 13:55





Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number
140327.03

Test America
Project Description
Trail Ridge

Report Date: March 31, 2014

Footnotes

NA	Not Applicable
ND	Not Detected/None Detected
Z	Too many colonies were present (TNTC), the numeric value represents the filtration volume.





Batch No: B6615										Associated Samples									
TestCode: Coli Fec (MF) 9222D										27260									
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														27260					
Coliform, Fecal	<1 U													0.0					
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.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224



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140327.03

Page 1 of 1

Company Name Tecot America								Container Information (Qty, Size, & Type)								Sample Matrix Codes:											
Address 87 2846 Industrial Plaza Dr																A. Air P. Petroleum B. Bulk S. Soil/Sludge Pt. Paint PW. Potable Water NPW. Non-Potable Water											
City Tallahassee State FL Zip 32301																											
Altn. Amy Marks								Container Preservation Codes								Sample Kit Number											
Tel. 854-49878-3994 E-mail or Fax								NA																			
Project Name Trail Ridge								Parameters								Preservation Codes:											
Project Number NA																0. None 5. Na ₂ S ₂ O ₃ 1. H ₂ SO ₄ 6. Crushed Ice (4C) 2. HNO ₃ 7. C ₆ H ₈ O ₆ 3. HCl 8. NH ₄ Cl 4. NaOH 9. Other: (List)											
Project Location NA																											
Sampler Name/Signature (Client)								Fecal Coliform								Turnaround Requested:											
Transfer # Sample # (Lab Use Only) Sample Identification Date Sampled Time Sampled Sample Matrix Code Comp Grab																☐ Standard											
1 27260 SW-1 3/27/14 11:44 W X 1																☒ Rush*											
2																* (Extra Fees May Apply)											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
0																											
Special Instructions:								Transfer Numbers				Relinquished By				Date / Time				Received By				Date / Time			
								1								3/27/14 1344								03/27/14 1340			



Certification #E821059



Certification #E821059

Project Login Form

DELI Project Number: 140327.03

Client Name: Test America

Date Received: 03/27/14

Received by: UMD

PLF Completed by: UMD

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	Note: If thermal preservation was used / required, pick a sample container from each cooler and use the IR gun to measure the sample temperature.
1	<u>Cooler</u> Box Other:	<u>Yes</u> No	<u>0.7</u>	<u>1.8</u>	
2	Cooler Box Other:	Yes No			
3	Cooler Box Other:	Yes No			
4	Cooler Box Other:	Yes No			
5	Cooler Box Other:	Yes No			

Therm Inv. #: 0357

IR Gun Inv. #: 0332

Other Information Checklist:

	YES	NO	NA
1 Were custody seals used for shipping containers(s)?	☐	☒	☐
2 If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☒
3 Were custody seals used for sample containers(s)?	☐	☒	☐
4 If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☒
5 Did custody papers accompany samples? (such as COC, specifics, etc.)	☒	☐	☐
6 Were the custody papers properly filled out?	☒	☐	☐
7 Were the sample containers received in good condition? (If no, see comments)	☒	☐	☐
8 Were the sample container labels properly filled out? (date, time, preservation, etc.)	☒	☐	☐
9 Were the labels on the sample containers and custody papers consistent?	☒	☐	☐
10 Were the samples in the correct containers for analysis?	☒	☐	☐
11 Were the correct preservations used for each sample container according to analysis?	☒	☐	☐
12 Were the samples received within the appropriate holding times?	☒	☐	☐
13 Were pH preservation checks made?	☐	☐	☒
14 Were the sample containers provided by DEL, Inc.?	☒	☒	☐
15 Was this a sample kit provided by DEL, Inc.? If Yes, DEL, Inc. Kit #: <u>NA</u>	☒	☒	☐
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?
27260	Focal Coliform	1	—	Yes <u>No</u>	—	—	—	100mL P w/ P-11
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				

Comments:

P = Plastic; G = Glass; AG = Amber Glass; TL = Teflon Lid; WM = Wide Mouth



ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945

Monday, April 14, 2014

TestAmerica - Tallahassee (TE021)

Attn: Amy Marks

2846 Industrial Plaza Drive

Tallahassee, FL 32301

RE: Laboratory Results for

Project Number: 640-47303, Project Name/Desc: Test America -

ENCO Workorder(s): A401774

Dear Amy Marks,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 28, 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,

Ronald Wambles For David Camacho

Project Manager

Enclosure(s)



www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1 Lab ID: A401774-01 Sampled: 03/27/14 11:00 Received: 03/28/14 10:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/29/14 11:00 04/11/14	03/28/14 12:08	04/04/14 10:18



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SAMPLE DETECTION SUMMARY

Client ID: SW-1

Lab ID: A401774-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorophyll a	2.1		0.50	0.50	ug/L	SM 10200H-2001	



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ANALYTICAL RESULTS

Description: SW-1

Lab Sample ID: A401774-01

Received: 03/28/14 10:05

Matrix: Water

Sampled: 03/27/14 11:00

Work Order: A401774

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		ug/L	1	0.50	0.50	4C28020	SM 10200H-2001	04/04/14 10:18	M1N	

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C28020 - NO PREP

Blank (4C28020-BLK1)

Prepared: 03/28/2014 12:08 Analyzed: 04/04/2014 10:18

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	0.50	U	0.50	ug/L							

Duplicate (4C28020-DUP1)

Prepared: 03/28/2014 12:08 Analyzed: 04/04/2014 10:18

Source: A401776-02

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	0.53		0.50	ug/L		0.53			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.

2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

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[illegible]

2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

1990-1991: 1990-1991

[illegible]

WASTE MANAGEMENT

Site No.:					Sample Point:	SW-1			
					Sample ID				

This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: ☒ Y or ☐ N

Filter Device: ☒ Y or ☐ N μ or μ (circle or fill in)

Purging Device: A-Submersible Pump D-Bailer
B-Peristaltic Pump E-Piston Pump
Sampling Device: C-QED Bladder Pump F-Dipper/Bottle

Filter Type: A-In-line Disposable C-Vacuum
B-Pressure X-Other _____

X-Other: _____ A-Teflon C-PVC X-Other: _____
B-Stainless Steel D-Polypropylene

Sample Tube Type:

WELL DATA	Well Elevation (at TOC)	(ft/msl)	Depth to Water (DTW) (from TOC)	(ft)	Groundwater Elevation (site datum, from TOC)	(ft/msl)
	Total Well Depth (from TOC)	(ft)	Stick Up (from ground elevation)	(ft)	Casing ID	Casing Material

Note: Total Well Depth, Stick Up, Casing ID, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

[illegible]

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/State. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA	SAMPLE DATE	pH	CONDUCTANCE	TEMP.	TURBIDITY	DO	eH/ORP	Other:
	(MM DD YY)	(std)	(umhos/cm @ 25°C)	(°C)	(ntu)	(mg/L-ppm)	(mV)	Units
	03 27 14	676	345	13.5	370	68	224	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: CLEAR Odor: _____ Color: BROWN THIN Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: cloudy, 50°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

[illegible]

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

03/27/14 Ben Ramliawan Ben Ramliawan PRO-TECH

Date _____

Name _____

Signature

Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WMM (0108)

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: KNJ
 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:

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{AB}$$

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)
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

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Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: KNJ
Checked by: SSG
Reviewed 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:

$$i = \frac{140' \text{ contour} - \text{MWB-22(S)}}{2500'} = \frac{140' - 115.62'}{2500'}$$

$i = 0.010 \text{ ft/ft}$

Intermediate gradient:

$$i = \frac{135' \text{ contour} - \text{MWB-12(I)}}{1900'} = \frac{135' - 117.90'}{1900'}$$

$i = 0.009 \text{ ft/ft}$

Deep gradient:

$$i = \frac{\text{MWB-31(D)} - 120' \text{ contour}}{2500} = \frac{138.85' - 120'}{2500}$$

$i = 0.008 \text{ ft/ft}$

Average gradient:

$i = 0.009 \text{ ft/ft}$

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by:	<u>KNJ</u>
Checked by:	<u>SSG</u>
Reviewed by:	<u>RWP</u>

Horizontal Hydraulic Gradients:

Shallow horizontal gradient is	0.0100	ft/ft
Intermediate horizontal gradient is	0.0090	ft/ft
Deep horizontal gradient is	0.0080	ft/ft
Average horizontal gradient is	0.0090	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 Number 0013495-017-SO

(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.

5/14/14
(Date)

[Signature]
(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.marks@testamaricainc.com

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Pensacola, FL 32501-5794
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7825 Baymeadows Way, Ste. 200 B
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904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL
813-632-7600

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2295 Victoria Ave., Ste. 364
Fort Myers, FL 33902-2549
239-332-6975

Southeast District
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West Palm Beach, FL 33401
561-681-6600

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