REPORT

SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT JULY 2012 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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October 12, 2012 1139014101

Emerson Raulerson, P.E.
Florida Department of Environmental Protection
Northeast District Office
7777 Baymeadows Way, Suite 100
Jacksonville, Florida 32256-7590 USA

RE: SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT FOR THE JULY 2012 MONITORING EVENT, TRAIL RIDGE LANDFILL, DUVAL COUNTY, FLORIDA, PERMIT NO. 0013493-017-SO

Dear Mr. Raulerson:

Golder Associates Inc. (Golder) has prepared this report summarizing the July 2012 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 (FDEP) 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.

Michael J. Smilley
Project Geologist

Kevin S. Brown, P.E.
Senior Consultant and Principal

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, and annual leachate monitoring at the Site in accordance with Specific Condition 40 of the Facility 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 second 2012 semi-annual groundwater and surface water monitoring event, and annual leachate monitoring event conducted in July 2012. 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.

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(IR), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), MWB-32(I), MWB-34(I); and
- 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), *MWB-14(S)*, MWB-14(I)*, MWB-14(D)**, 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), *MWB-23(S)**
Detection	MWB-33(S), MWB-34(S), MWB-34(I), MWB-34(D)
Phase V	
Compliance	*MWB-24(S)*, MWB-25(S)*, MWB-25(I)*, MWB-25(D)*, MWB-26(S)**, 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 Facility 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 Site'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 stormwater is actively discharging or from the center of the pond if there is no active discharge.

2.3 Leachate Monitoring System

Leachate monitoring is scheduled to occur on an annual basis before September 30th; resulting data is submitted in conjunction with the associated semi-annual groundwater and surface water monitoring report.

The Site leachate monitoring system currently consists of two (2) monitoring locations: LCS and LDSS. LCS is collected as a composite sample from leachate tanks 1 through 5 (COMP-1), which receives

leachate from all of the primary leachate collection sumps via one force main. LDSS is collected from the secondary leachate collection system from the drain valve of the leachate detection storage tank (TANK-6).

Previously, gas condensate samples were collected on a semi-annual basis from the pump station and analyzed for toxicity characteristic leaching procedure (TCLP) parameters. Under current Facility Permit Specific Condition 38, separate testing of the gas condensate is no longer required because the condensate is discharged into the leachate collection system.

3.0 DATA COLLECTION METHODS

3.1 Groundwater Elevation Measurements

ProTech field personnel measured water levels in Site monitoring wells on July 23, 2012 prior to purging and sampling activities in accordance with procedures described in the Facility Permit. Water levels were measured at all 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 and details 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 July 2012 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 all thirty-seven monitoring wells between July 23rd and 25th, 2012. 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 had been 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. Surface water samples were collected from three surface water monitoring points using a dipper or laboratory-provided container on July 26th, 2011. 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.

TestAmerica, a Florida-certified laboratory in Tallahassee, Florida, analyzed groundwater and surface water samples collected in July 2012 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 Appendix I VOCs	8260C
	40 CFR Part 258 Appendix I 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 Appendix I VOCs	8260C
	40 CFR Part 258 Appendix I Metals	6020

3.3 Leachate Sample Collection and Analysis

Leachate 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 leachate for laboratory analysis from both leachate sampling locations (LCS and LDSS) on July 25th, 2012. LCS is a composite sample of primary leachate collected from Tanks 1 through 5 (COMP-1), and LDSS is a secondary leachate sample collected from Tank 6. 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 leachate sampling logs (FD 9000-24) are provided along with the laboratory report in Appendix B.

TestAmerica, a Florida-certified laboratory in Tallahassee, Florida, analyzed leachate samples collected in July 2012 for the parameters identified in Specific Condition 40 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 Leachate Samples

Sample Type	Analytical Parameter	Analysis Method(s)
Leachate	Total Ammonia - N	350.1
	Chlorides	300.0
	Iron	6010B
	Mercury	7470A
	Nitrate	353.2
	Sodium	6010B
	Total Dissolved Solids (TDS)	SM 2540C
	Bicarbonate	SM 2320B
	40 CFR Part 258 Appendix II Parameters	
	Volatile Organic Compounds (VOCs)	8260C
	Metals	6020
	SVOCs	8270D
	EDB, DBCP, and 1,2,3-TCP	8011
	Polychlorinated Biphenyls (PCBs)	8082A
	Chlorinated Pesticides	8081B
	Herbicides	8151A
	Organophosphorus Compounds	8141B
	Dioxins/Furans	1613B-Tetras
	Total Sulfide	SM 4500 S2 F
	Total Cyanide	SM 4500 CN E

4.0 GROUNDWATER FLOW DIRECTION EVALUATION

4.1 Groundwater Elevations and Flow Direction

Golder calculated groundwater elevations based on water levels measured on July 23rd, 2012 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

Average horizontal hydraulic gradients for the July 2012 monitoring event were calculated for the shallow, intermediate, and deep depths within the surficial aquifer along flow paths oriented perpendicular to the potentiometric contours (Appendix C). The results are summarized in the following table and are consistent with historical gradient values for the Site.

Horizontal Hydraulic Gradient Values

Surficial Aquifer Unit	Calculation Description	Gradient (ft/ft)
Shallow	135-foot potentiometric contour and MWB-22(S) Distance 2,600 feet	0.0106
Intermediate	135-foot potentiometric contour and MWB-12(I) Distance 2,500 feet	0.0096
Deep	MWB-31(D) and 120-foot potentiometric contour Distance 2,300 feet	0.0075
	Site Average Hydraulic Gradient	**0.0092**

5.0 WATER QUALITY MONITORING RESULTS

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

5.1.1 Groundwater and Surface Water Analytical QA/QC

ProTech field personnel collected two field blanks during the July 2012 sampling event and submitted the samples with trip blanks in coolers containing VOC samples to TestAmerica 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 Test America Laboratory Report 640-39625-1.

The following QA/QC issues were identified:

- Several analytes were detected between method detection limits (MDLs) and practical quantitation limits (PQLs); these detections were qualified with an “I”.
- Method blank detections for chloroform (batch 94569), were between the MDL and PQL and were qualified with an “I”. Chloroform was not detected in any groundwater or surface water samples.
- LCS/LCSD recoveries were outside control limits for several analytes in method 8260 (batch 94569 and 94650; associated results have been qualified with a “J” or “UJ”, where results are non-detect. LCS/LCSD precision criteria were outside control limits for vinyl acetate; all recovery criteria were met.
- MS/MSD recoveries were outside control limits for several VOCs (batch 94569 and 79304); target analytes are qualified as “J”. MS/MSD recoveries were outside control limits for mercury (method 1631E, batch 160031); biased low for ammonia (batch 245778); MS/MSD recoveries were outside control limits for method SM 5310C; the associated LCS recoveries for the above parameters were within limits and the associated data are considered acceptable. Due to high concentration of ammonia MS/MSD could not be calculated for batch 245617; the associated LCS met acceptance criteria.
- 2-butanone (4.1 I ug/L) was detected in Trip Blank 01. 2-butanone was not detected in groundwater samples, but was detected in SW-3 (77 ug/L).
- The LCS/LCSD value for iodomethane (batch 94569, 94618, 94641, 94650, 94651, 94681) is known to be greater than the given value because the result value was above the calibration range and was qualified with an “L”. The MS/MSD value for iodomethane

(batch 94569) is known to be greater than the given value because the result value was above the calibration range and was qualified with an “L”.

- Elevated reporting limits are reported due to sample dilutions: SW-1, SW-2, and SW-3 were diluted for low level Mercury due to the sample matrix; and SW-1 was diluted for Nitrogen, Nitrate-Nitrite due to dark color.

As indicated above, Test America 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 and trip blank detections. In addition, the subcontract laboratory (Diversified Environmental Laboratories, Inc.) qualified fecal coliform results for SW-3 results based on colony counts outside the acceptable range (B). MWB-13(S) was decanted prior to VOC analysis due to sediment in the sample.

No other QA/QC issues were identified during data validation; therefore, remaining results from the July 2012 event are considered acceptable without qualification.

5.1.2 Leachate Analytical QA/QC

ProTech field personnel submitted the samples and trip blank(s) in coolers containing volatile organic compound samples to TestAmerica for analysis during the July 2012 event; no field blanks or duplicates were collected. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, LCS, and MS/MSD. Golder evaluated the QA/QC results for the laboratory reports associated with leachate samples from TestAmerica Laboratory Report 640-39704-1. The following QA/QC issues were identified and, if necessary, qualified accordingly:

- Several analytes were detected between MDLs and PQLs; these detections were qualified with an “I”.
- Bis(2-ethylhexyl)phthalate was detected in the method blank for batch 94588 and 94621; the concentration was less than the PQL and associated sample detections were qualified with a “V”.
- LCS/LCSD were outside control limits (biased high) for 4-bromophenyl phenyl ether, di-n-butylphthalate, hexachlorocyclopentadiene (batch 94621), and hexachlorocyclopentadiene (batch 94588); target analytes were qualified with a “J”.
- MS/MSD for several SVOC analytes (batch 94621) were outside control limits; the associated LCS/LCSD met acceptance criteria. MS/MSD were outside control limits for method 8081B/8082A (batch 94585); sample TANK-6 was used for the MS/MSD and the associated LCS/LCSD met acceptance criteria. MS/MSD could not be evaluated for

batch 94588 due to the high concentration of phenol and 3&4-methylphenol in the parent sample COMP-1; the associated LCS/LCSD met acceptance criteria.

- COMP-1 was diluted due to the abundance of target analytes (method 8260C); elevated reporting limits are provided. COMP-1 was diluted (method 8151A, 353.2, SM4500NO2B) and TANK-6 was diluted (method 353.2 and SM4500S2F) due to the nature of the sample matrix; elevated reporting limits were provided. Surrogates could not be recovered for COMP-1 (method 8151A) due to the level of dilution required.
- Surrogate recoveries were outside control limits for method 8081B/8082A for COMP-1 and MS/MSD samples, MS/MSD for method 8141B (batch 94585) and LCS/LCSD for method 8270D; the affected surrogates were flagged "J". All surrogate recoveries for samples associated with LCS/LCSD (method 8270D) were within control limits.

No other QA/QC issues were identified during data validation; therefore, remaining results from the July 2012 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 July 2012 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.

5.2.1 Groundwater

Tables 2A, 2B, and 2C summarize laboratory analytical results for the shallow, intermediate, and deep zones of the surficial aquifer, respectively. Several inorganic analytes were detected in background, compliance, and detection wells at various depths: chloride, ammonia, nitrate, nitrate-nitrite, iron, sodium, Appendix I metals, mercury, and total dissolved solids.

In addition, certain VOCs were detected in groundwater samples:

- Acetone in sample MWB-2(S) at 3.9 I ug/L;
- Carbon disulfide in sample MWB-27(I) at 1.1 ug/L, and in sample MWB-17(D) at 0.41 I ug/L;
- Toluene in sample MWB-32(S) at 2.4 ug/L

VOC detections between the MDLs and PQLs were qualified with an “I”. VOCs, including acetone, were detected in at least one background well during the previous semi-annual event. The VOC detections therefore do not appear to represent deterioration in groundwater quality related to the landfill.

5.2.2 Surface Water

Table 3 summarizes laboratory analytical results for surface water samples collected from the Site. Several inorganic analytes were detected at one or more surface water locations: nitrate, nitrate-nitrite, nitrogen, phosphorous and orthophosphate, iron, Appendix I metals, unionized ammonia, chlorophyll a, hardness, total dissolved solids, total suspended solids, BOD, COD, TOC, and fecal coliform.

In addition, certain VOCs were detected in surface water samples:

- 2-Butanone in sample SW-3 at 77 ug/L;
- Acetone in sample SW-3 at 82 ug/L;
- Carbon disulfide in sample SW-3 at 1.1 ug/L; and
- Toluene in sample SW-3 at 20 ug/L.

Acetone has been detected during recent sampling events (February 2009, August 2009, and August 2010) in SW-1 and SW-3. Toluene, which was detected in SW-1 during the August 2010 event, was not in detected in SW-1 during this sampling event. All VOC detections during the July 2012 semi-annual event were below Class I/III Water Quality Standards.

5.2.3 Leachate

This section summarizes laboratory analytical results for leachate samples collected from the Site; the complete laboratory report can be found in Appendix B.

Several inorganic analytes were detected at both leachate sampling locations: mercury, chloride, iron, sodium, ammonia, Appendix I metals, total dissolved solids, sulfide, and total cyanide. In addition, several VOCs were detected in leachate samples, as shown in the attached laboratory report.

5.3 Field Parameter Measurement Results

Table 4 summarizes field parameter measurements for groundwater, surface water, and leachate samples collected during the July 2012 event. Original field forms with parameter measurements are included at the end of the laboratory report in Appendix B.

5.3.1 Groundwater

Groundwater field parameter readings and observations are consistent with those from previous semi-annual monitoring events, except for turbidity at certain locations discussed in this paragraph. The average pH increases with depth between the shallow, intermediate, and deep zones of the aquifers. 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), except for MWB-12(S) at 23.24 NTU, MWB-13(S) at 48.45 NTU, MWB-27(S) at 55.91 NTU, MWB-32(S) at 489.4 NTU, MWB-32(I) at 54.31 NTU, and MWB-19(D) at 80.70 NTU. Turbidity at MWB-12(S), MWB-13(S), and MWB-32(I) is higher than recent events but within the range of historical detections at these locations.

5.3.2 Surface Water

Surface water field parameter readings and observations are within the historic range of surface water measurements. The measured pH values ranged from 4.62 to 7.16 Standard Units (S.U.); dissolved oxygen ranged from 4.6 to 5.1 milligram per liter (mg/L); specific conductivity ranged from 0.064 to 0.457 milliSiemens per centimeter (mS/cm); and temperature ranged from 25.1 to 28.3 degrees Celsius. Turbidity values were below 20 NTU at SW-2; the turbidity at SW-1 and SW-3 were 31.86 and 26.49 NTU, respectively. Turbidity at SW-3 is lower than has been historical recorded.

5.3.3 Leachate

The measured pH values ranged from 7.35 to 7.52 S.U.; dissolved oxygen ranged from 0.1 to 0.2 mg/L; specific conductivity ranged from 9.123 to 22.890 mS/cm; temperature ranged from 33.8 to 38.2 degrees Celsius; and turbidity values ranged from 34.55 to 521.4 NTU.

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. Facility Permit Specific 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 minimum criteria identified in F.A.C. Chapter 62-520.400 indicate that groundwater shall be “free from domestic, industrial, agricultural, or other man-induced non-thermal components of discharges” in concentrations which:

- Are harmful to plants, animals, or native organisms
- Are carcinogenic, mutagenic, teratogenic, or toxic to human beings unless specific criteria are established in Rule 62-520.420
- Are acutely toxic within surface waters affected by groundwater
- Pose a serious danger to public health, safety, or welfare and/or create a nuisance
- Impair the reasonable and beneficial use of adjacent waters

The Class G-II standards identified in F.A.C. Chapter 62-520.420 for potable groundwater in aquifers with total dissolved solids TDS content less than 10,000 mg/L refer to primary and secondary drinking water quality standards listed in Rules 62-550.310 and 62-550.320, respectively, with the exception that the total coliform bacteria standard shall be 4 per 100 milliliters. The primary drinking water standards (PDWS) and secondary drinking water standards (SDWS) 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 SDWS 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 July 2012 met minimum criteria established under F.A.C. Chapter 62-520.400 and PDWS established under F.A.C. Chapter 62-550.310. SDWS exceedances were identified for iron and pH at one or more wells. These exceedances have all been verified and are summarized below.

Iron (SDWS 0.3 mg/L)

- Shallow wells: Background well MWB-2(S), and MWB-13(S), MWB-17(S), MWB-19(S), MWB-21(S), MWB-27(S), MWB-29(S), MWB-32(S), and MWB-33(S);
- Intermediate wells: Background wells MWB-2(I) and MWB-3(I), and MWB-7(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), and MWB-34(I); and
- Deep wells: Background well MWB-31(D), and MWB-12(D), MWB-17(D), MWB-19(D), MWB-27(D), MWB-29(D), MWB-32(D), and MWB-34(D)

Total Lead (SDWS 15 ug/L)

- Shallow well: MWB-32(S) – The turbidity for this sample was greater than 400 NTU at the time of sampling and a dissolved sample was collected in addition to the total lead sample. The dissolved lead sample was below the WQS standard at 0.30 ug/L and showed that the total lead sample result was an artifact of turbidity and not representative of groundwater concentrations.

pH (SDWS 6.5 to 8.5)

- Shallow wells: All 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

Turbidity (29 NTU above background)

- Shallow wells: MWB-13(S), MWB-27(S), and MWB-32(S);
- Intermediate wells: MWB-32(I)
- Deep wells: MWB-19(D)

Metals (specifically iron) and pH have been historically detected at concentrations exceeding the applicable SDWS and reported to FDEP. Metals and pH have also been detected in background wells at concentrations out of compliance with the associated SDWS. Elevated turbidity during sampling at MWB-32(S) likely explains the metals detections and lead exceedance during this event since detected metals are naturally occurring in on-site soils. A dissolved lead sample collected at MWB-32(S) resulted in 0.30 ug/L confirming that this exceedance was the result of elevated turbidity and not representitive of groundwater conditions. Because of the elevated turbidity in this well at the time of sampling, this well will be redeveloped prior to the collection of the next sample. These SDWS exceedances therefore appear to be related to natural subsurface conditions rather than landfill impacts. Further discussion regarding the natural occurrence of metals (specifically iron) and low pH is provided in Section 7.0.

Previous groundwater monitoring reports attributed elevated parameter concentrations (conductivity, chloride, TDS, ammonia, and vanadium) in well MWB-34(S) to leachate pump issues that periodically occurred between 2005 and 2007. There were no exceedances during the July 2012 event at MWB-34(S), except for pH. These issues were corrected and concentrations have generally decreased since 2008, which indicates that conditions are improving.

6.2 Surface Water

6.2.1 Established Standards

Facility Permit Specific 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. F.A.C. Chapter 62-302 establishes minimum criteria and water quality standards for several classes of water including: Class I (potable water supplies), Class II (shellfish propagation or harvesting), Class III (fish consumption, recreation, propagation and maintenance of a healthy, well-balanced population of fish and wildlife), Class IV (agricultural water supplies), and Class V (navigation, utility, and industrial use).

The minimum criteria identified in F.A.C. Chapter 62-302.500 indicate that surface waters shall be “free from domestic, industrial, agricultural, or other man-induced non-thermal components of discharges” which:

- Settle to form putrescent deposits or create a nuisance
- Float as debris, scum, oil, or other matter in such amounts to create a nuisance
- Produce color, odor, taste, turbidity, or other conditions to create a nuisance
- Are acutely toxic

- Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring fish a wildlife
- Pose a serious danger to public health, safety, or welfare

The surface water quality standards for each defined class are established in F.A.C. Chapter 62-302.530. Class I and Class III (predominantly fresh water) are the only applicable surface water classes for the Site. 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 the July 2012 sampling event and the September 27, 2012 resampling event met minimum criteria established under F.A.C. Chapter 62-302.500. The following verified 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):

- lead in SW-1(concentration within historical range, but verified unusually low hardness that resulted in a low calculated standard)
- beryllium and lead at SW-2; and
- Dissolved oxygen (below 5 mg/L) at SW-3.

The initial exceedances observed during the July 2012 event were within the historical range for each parameter with the exception of hardness detected at SW-2 and metals detections at SW-1. Following the identification of these surface water criteria exceedances FDEP was notified by telephone and e-mail in accordance with the facility permit. A plan to resample for the above exceedances was initiated. Subsequent confirmation sampling occurred on September 27th, 2012 for hardness at SW-1, antimony, beryllium, silver, cadmium, chromium, copper, lead, nickel and zinc at SW-2 and unionized ammonia, 2-butanont, acetone, carbon disulfide and toluene at SW-3. The results of the subsequent resampling are summarized in the Table 3. While turbidity did not exceed WQS standards at SW-1 during the resampling event, results at SW-1 still appear lower than historical concentrations. Using the hardness data from the surface water resampling event, the SW-1 lead detection is confirmed to exceed calculated WQS Class I & Class III standards, however detected concentrations are within the historic range of detections at that location. At SW-2, antimony, silver, cadmium, chromium, copper, and zinc were not detected during the surface water resampling. However, beryllium and lead were confirmed to exceed WQS standards in the SW-2 resample. Acetone, 2-butanone, carbon disulfide and toluene were not detected in the resampled

SW-3 sample. In addition, unionized ammonia was detected below the WQS standard in the resampled SW-3 sample. Dissolved oxygen was confirmed below 5 mg/L during the SW-3 resampling.

6.3 Leachate

6.3.1 Established Standards

Leachate data is compared to regulatory standard values provided in 40 CFR 261.24 which define toxicity characteristics. Facility Permit Specific Condition 40 indicates that "if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in F.A.C. Rule 62-701.510(6)(c)2, which includes notifying DEP of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date of the sampling event in which the exceedance is first detected."

6.3.2 Comparison of Leachate to Established Standards

None of the detected parameters in leachate samples exceeded regulatory levels for toxicity characteristics listed in 40 CFR Part 261.24.

7.0 DISCUSSION AND RECOMMENDATIONS

During the most recent event, analytes were detected in groundwater and/or surface water at concentrations exceeding applicable drinking water and/or surface water quality standards. These include iron, lead, pH, and turbidity for groundwater; and unionized ammonia, iron, lead, antimony, beryllium, silver, cadmium, chromium, copper, lead, nickel, zinc, dissolved oxygen and turbidity for surface water. None of the detected parameters in leachate samples exceeded regulatory levels for toxicity characteristics listed in 40 CFR Part 261.24. SW-1, SW-2 and SW-3 surface water locations were resampled for exceeded criteria. The metals detection and lead exceedance in MWB-32S is likely the result of increased turbidity during sampling. Dissolved lead concentrations at MWB-32S were below applicable WQS standards. Beryllium and lead exceedances at SW-2 were confirmed, but detections were within the historical range at this location and are likely related to turbidity. Dissolved oxygen was confirmed below 5 mg/L at SW-3. Acetone, 2-butanone, carbon disulfide, toluene antimony, silver, cadmium, chromium and copper were not detected during the resampling event suggesting that these exceedances were introduced by the laboratory and/or were the result of elevated turbidity. With the exception of the confirmed surface water exceedances, groundwater and surface water detections for the most recent event were generally within the historical range of concentrations observed at the Site, and are likely related to naturally occurring conditions.

Iron was the most commonly detected parameter in both groundwater and surface water. Iron has historically been detected in background/upstream and downgradient/downstream locations at concentrations exceeding SDWS and surface water quality standards. In groundwater, iron concentrations typically increase with depth. Previous monitoring reports have attributed this to geochemical 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 metals detected in surface water (e.g., beryllium and lead) also naturally occur in area soils, and may be correlated to turbidity.

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 semi-annual groundwater and surface water event should be conducted prior to March 30, 2013.

8.0 PROFESSIONAL CERTIFICATION

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

GOLDER ASSOCIATES INC.

Richard W. Poff, PG
Florida Professional Geologist No. 2505

10/11/12
Date

9.0 REFERENCES

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

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

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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.

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 (ft MSL)	Screened Interval (ft BTOC)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
Shallow Wells				
MWB-2(S)	146.64	10.00 to 20.00	6.43	140.21
MWB-3(S)	154.38	10.00 to 20.00	7.05	147.33
MWB-7(S)	123.29	10.00 to 20.00	7.38	115.91
MWB-11(S)	120.81	9.50 to 19.50	10.84	109.97
MWB-12(S)	124.63	14.50 to 24.50	9.73	114.90
MWB-13(S)	126.05	16.56 to 26.56	12.36	113.69
MWB-17(S)	138.31	13.30 to 18.30	6.10	132.21
MWB-19(S)	127.38	10.00 to 20.00	6.45	120.93
MWB-20(S)	121.01	10.00 to 20.00	7.20	113.81
MWB-21(S)	122.84	13.00 to 18.00	10.67	112.17
MWB-22(S)	126.97	16.00 to 26.00	11.30	115.67
MWB-27(S)	128.42	10.50 to 15.50	6.41	122.01
MWB-29(S)	138.02	10.00 to 20.00	7.50	130.52
MWB-32(S)	124.64	14.90 to 19.90	7.92	116.72
MWB-33(S)	125.90	10.30 to 20.30	10.21	115.69
MWB-34(S)	125.78	13.36 to 18.36	9.30	116.48
Intermediate Wells				
MWB-2(I)	145.73	51.50 to 61.50	7.78	137.95
MWB-3(I)	151.86	52.00 to 62.00	12.31	139.55
MWB-7(I)	121.53	55.00 to 65.00	3.21	118.32
MWB-11(IR)	120.43	45.00 to 55.00	10.80	109.63
MWB-12(I)	124.62	61.50 to 71.50	6.86	117.76
MWB-13(I)	125.98	50.40 to 60.40	16.87	109.11
MWB-17(I)	138.43	50.13 to 60.13	2.55	135.88
MWB-19(I)	127.94	49.00 to 59.00	6.88	121.06
MWB-27(I)	128.63	52.50 to 62.50	4.61	124.02
MWB-29(I)	138.08	53.50 to 63.50	3.66	134.42
MWB-32(I)	124.79	54.56 to 64.56	6.34	118.45
MWB-34(I)	125.80	43.95 to 53.95	7.94	117.86
Deep Wells				
MWB-7(D)	121.65	107.00 to 117.00	0.95	120.70
MWB-12(D)	124.56	102.00 to 112.00	4.58	119.98
MWB-17(D)	138.52	117.32 to 127.32	6.56	131.96
MWB-19(D)	128.23	105.50 to 115.50	6.70	121.53
MWB-27(D)	128.88	110.00 to 110.00	4.95	123.93
MWB-29(D)	138.18	100.50 to 110.50	3.81	134.37
MWB-31(D)	156.15	119.00 to 129.00	16.67	139.48
MWB-32(D)	124.93	98.81 to 108.81	6.65	118.28
MWB-34(D)	125.92	90.78 to 100.78	8.12	117.80

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 July 23,2012. Top of casing elevations based on groundwater well survey data provided in October 2010 potentiometric maps (HDR Engineering).

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

		PDWS	SDWS	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)
Laboratory Method EPA 300.0												
Chloride	mg/L		250	**1.9 I**	**3 I**	**14**	**33**	**8.5**	**53**	**6.6**	**10**	**5.8**
Laboratory Method EPA 350.1												
Ammonia (N)	ug/L			**74**	**35 I**	**200**	**130**	**91**	**73**	**120**	**130**	**160**
Laboratory Method EPA 353.2 (Nitrate (N))												
Nitrate (N)	mg/L	10		**0.12**	< 0.0047	**1.1**	**0.042**	**0.075**	**0.26**	< 0.0047	< 0.0047	< 0.0047
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))												
Nitrate-Nitrite (N)	mg/L	10		**0.13**	< 0.01	**1.1**	**0.042 I**	**0.075**	**0.26**	< 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	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**1.3 I**	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**7.6**	**9.5**	**6.5**	**86**	**6**	**26**	**4.8 I**	**17**	**11**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 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	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		**2.6 I**	< 2.5	< 2.5	< 2.5	**2.8 I**	**13**	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			**0.19 I**	< 0.15	< 0.15	**0.5**	< 0.15	**0.26 I**	< 0.15	**0.15 I**	**0.19 I**
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**5.2**	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**460**	**130**	**54 I**	**230**	**65 I**	**2000**	**320**	**460**	**240**
Lead	ug/L	15		**1.2 I**	< 0.2	**0.52 I**	< 0.2	**0.47 I**	**3.8**	**0.71 I**	**0.37 I**	**0.8 I**
Nickel	ug/L	100		< 2	< 2	< 2	< 2	< 2	**4.7 I**	< 2	< 2	< 2
Selenium	ug/L	50		< 1	< 1	**1.2 I**	**1.2 I**	**6.9**	**21**	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**2000**	**2400**	**13000**	**17000**	**4700**	**45000**	**4500**	**7400**	**4900**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			**5.2 I**	**3.9 I**	**7.8 I**	**4.8 I**	**65**	**58**	**5.4 I**	**4.6 I**	**6.1 I**
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	**10 I**	< 8.3	**14 I**	< 8.3
Laboratory Method EPA 7470												
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 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		< 0.0057	< 0.0057	< 0.0058	< 0.0058	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0062	< 0.0062	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260												
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16 UJ	< 0.16	< 0.16	< 0.16	< 0.16 UJ	< 0.16 UJ	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23 UJ	< 0.23	< 0.23	< 0.23	< 0.23 UJ	< 0.23 UJ	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15 UJ	< 0.15	< 0.15	< 0.15	< 0.15 UJ	< 0.15 UJ	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			**3.9 I**	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

Golder Associates

Q:\DATABASE\WasteMgmt\TrailRidge.accdb

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

		PDWS	SDWS	MWB-21(S)	MWB-22(S)	MWB-27(S)	MWB-29(S)	MWB-32(S)	MWB-33(S)	MWB-34(S)
Laboratory Method EPA 300.0										
Chloride	mg/L		250	**1.4 I**	**20**	**9.7**	**6.4**	**26**	**15**	**6.9**
Laboratory Method EPA 350.1										
Ammonia (N)	ug/L			**130**	**90**	**200**	**86**	**290**	**670**	**780**
Laboratory Method EPA 353.2 (Nitrate (N))										
Nitrate (N)	mg/L	10		< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	**0.033**	< 0.0047
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))										
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.033 I**	< 0.01
Laboratory Method EPA 6020										
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	**1.5 I**	< 1.3	**1.7 I**	< 1.3	< 1.3
Barium	ug/L	2000		**13**	**3.8 I**	**9.9**	**15**	**39**	**31**	**7.7**
Beryllium	ug/L	4		< 0.25	< 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	**0.23 I**	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	**5.8**	< 2.5	**17**	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	**0.26 I**	< 0.15	**0.57**	**0.32 I**	**0.47 I**
Copper	ug/L		1000	< 1.1	< 1.1	**1.6 I**	< 1.1	**10**	< 1.1	**2.2 I**
Iron	ug/L		300	**430**	**97 I**	**370**	**330**	**1400**	**640**	**230**
Lead	ug/L	15		< 0.2	< 0.2	**1.5**	< 0.2	**20**	< 0.2	< 0.2
Nickel	ug/L	100		< 2	< 2	**2.3 I**	< 2	**2.9 I**	< 2	**2.1 I**
Selenium	ug/L	50		< 1	**1.3 I**	< 1	< 1	**2.9**	< 1	**1.2 I**
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**1800**	**15000**	**8900**	**4300**	**14000**	**13000**	**16000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			**3.9 I**	< 3.8	**11**	< 3.8	**17**	**6.8 I**	**4.9 I**
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	**74**
Laboratory Method EPA 7470										
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	**0.33**	< 0.091	< 0.091
Laboratory Method EPA 8011										
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0058	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0062	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260										
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16 UJ	< 0.16	< 0.16 UJ	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23 UJ	< 0.23	< 0.23 UJ	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15 UJ	< 0.15	< 0.15 UJ	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

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

		PDWS	SDWS	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)
Laboratory Method EPA 8260												
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51 UJ	< 0.51	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ	< 0.51	< 0.51	< 0.51 UJ
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18 UJ	< 0.18	< 0.18	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33 UJ	< 0.33	< 0.33 UJ	< 0.33 UJ	< 0.33 UJ	< 0.33 UJ	< 0.33	< 0.33	< 0.33 UJ
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18 UJ	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18	< 0.18 UJ
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43 UJ	< 0.43	< 0.43	< 0.43	< 0.43 UJ	< 0.43 UJ	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38 UJ	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38 UJ	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22 UJ	< 0.22	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22	< 0.22	< 0.22 UJ
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C												
Residues- Filterable (TDS)	mg/L		500	**52**	**8**	**120**	**130**	**120**	**260**	**62**	**94**	**56**

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

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

		PDWS	SDWS	MWB-21(S)	MWB-22(S)	MWB-27(S)	MWB-29(S)	MWB-32(S)	MWB-33(S)	MWB-34(S)
Laboratory Method EPA 8260										
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51 UJ	< 0.51	< 0.51 UJ	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18 UJ	< 0.18	< 0.18 UJ	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33 UJ	< 0.33	< 0.33 UJ	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18 UJ	< 0.18	< 0.18 UJ	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	**2.4**	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43 UJ	< 0.43	< 0.43 UJ	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38 UJ	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22 UJ	< 0.22	< 0.22 UJ	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C										
Residues- Filterable (TDS)	mg/L		500	**120**	**170**	**150**	**10**	**250**	**160**	**440**

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

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

		PDWS	SDWS	MWB-2(I)	MWB-3(I)	MWB-7(I)	MWB-11(IR)	MWB-12(I)	MWB-13(I)	MWB-17(I)	MWB-19(I)	MWB-27(I)
Laboratory Method EPA 300.0												
Chloride	mg/L		250	**6.8**	**5.8**	**4.9 I**	**4.9 I**	**4.6 I**	**4.6 I**	**4.2 I**	**4.4 I**	**4.5 I**
Laboratory Method EPA 350.1												
Ammonia (N)	ug/L			**180**	**37 I**	**56**	**60**	**68**	**84**	**41 I**	**76**	**79**
Laboratory Method EPA 353.2 (Nitrate (N))												
Nitrate (N)	mg/L	10		< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
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	< 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	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**21**	**23**	**50**	**46**	**51**	**33**	**34**	**69**	**52**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 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	< 0.095	**0.68**	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			**0.2 I**	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	**0.93**	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**340**	**700**	**340**	**540**	**370**	**360**	**310**	**510**	**420**
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	**0.58 I**	< 0.2	**0.57 I**	< 0.2	**0.61 I**	**0.25 I**
Nickel	ug/L	100		< 2	< 2	< 2	**2.6 I**	< 2	< 2	< 2	**2.8 I**	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**4400**	**3600**	**3300**	**3000**	**3100**	**3300**	**3100**	**3400**	**3200**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	**11**	< 3.8	**4.1 I**	< 3.8	**5.4 I**	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	**14 I**	< 8.3
Laboratory Method EPA 7470												
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 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		< 0.0057	< 0.0057	< 0.0057	< 0.0058	< 0.0057	< 0.0057	< 0.0057	< 0.0058	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0061	< 0.0062	< 0.0061	< 0.006	< 0.0061	< 0.0062	< 0.0061
Laboratory Method EPA 8260												
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16 UJ	< 0.16	< 0.16	< 0.16	< 0.16 UJ	< 0.16 UJ	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23 UJ	< 0.23	< 0.23	< 0.23	< 0.23 UJ	< 0.23 UJ	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15 UJ	< 0.15	< 0.15	< 0.15	< 0.15 UJ	< 0.15 UJ	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51 UJ	< 0.51	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	**1.1**
Carbon tetrachloride	ug/L	3		< 0.18 UJ	< 0.18	< 0.18	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33 UJ	< 0.33	< 0.33 UJ	< 0.33 UJ	< 0.33 UJ	< 0.33 UJ	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18 UJ	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

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= PDWS Exceedance = SDWS Exceedance

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

		PDWS	SDWS	MWB-29(I)	MWB-32(I)	MWB-34(I)
Laboratory Method EPA 300.0						
Chloride	mg/L		250	**5**	**4.7 I**	**4.9 I**
Laboratory Method EPA 350.1						
Ammonia (N)	ug/L			**93**	**39 I**	**67**
Laboratory Method EPA 353.2 (Nitrate (N))						
Nitrate (N)	mg/L	10		< 0.0047	< 0.0047	< 0.0047
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))						
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	< 0.01
Laboratory Method EPA 6020						
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**39**	**37**	**49**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**390**	**260**	**410**
Lead	ug/L	15		**0.87 I**	**1.8**	**0.46 I**
Nickel	ug/L	100		< 2	< 2	**3.2 I**
Selenium	ug/L	50		< 1	**1.3 I**	**1 I**
Silver	ug/L		100	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**3300**	**3100**	**3200**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470						
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011						
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0056	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.006	< 0.0061
Laboratory Method EPA 8260						
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16 UJ	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23 UJ	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15 UJ	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51 UJ	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18 UJ	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33 UJ	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18 UJ	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

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

		PDWS	SDWS	MWB-2(I)	MWB-3(I)	MWB-7(I)	MWB-11(IR)	MWB-12(I)	MWB-13(I)	MWB-17(I)	MWB-19(I)	MWB-27(I)
Laboratory Method EPA 8260												
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43 UJ	< 0.43	< 0.43	< 0.43	< 0.43 UJ	< 0.43 UJ	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38 UJ	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ
Vinyl chloride	ug/L	1		< 0.22 UJ	< 0.22	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C												
Residues- Filterable (TDS)	mg/L		500	**16**	**10**	**20**	**30**	**24**	**36**	**8**	**22**	**34**

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

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= PDWS Exceedance = SDWS Exceedance

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

		PDWS	SDWS	MWB-29(I)	MWB-32(I)	MWB-34(I)
Laboratory Method EPA 8260						
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43 UJ	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22 UJ	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C						
Residues- Filterable (TDS)	mg/L		500	**30**	**34**	**26**

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

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= PDWS Exceedance = SDWS Exceedance

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TABLE 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

		PDWS	SDWS	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)
Laboratory Method EPA 300.0												
Chloride	mg/L		250	**4 I**	**4 I**	**5.4**	**4.1 I**	**5**	**5.7**	**5**	**4.8 I**	**4.6 I**
Laboratory Method EPA 350.1												
Ammonia (N)	ug/L			**150**	**170**	**68**	**110**	**110**	**98**	**180**	**100**	**180**
Laboratory Method EPA 353.2 (Nitrate (N))												
Nitrate (N)	mg/L	10		< 0.0047	< 0.0047	**0.04**	< 0.0047	**0.011**	< 0.0047	< 0.0047	< 0.0047	< 0.0047
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))												
Nitrate-Nitrite (N)	mg/L	10		< 0.01	< 0.01	**0.04 I**	< 0.01	**0.011 I**	< 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	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	**14**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**76**	**120**	**32**	**140**	**53**	**56**	**93**	**51**	**100**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	**3.1**	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	**1.5**	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	**23**	< 2.5	**3 I**	**3.1 I**	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	**2.7**	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	**8.5**	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**290**	**920**	**340**	**15000**	**680**	**730**	**750**	**570**	**450**
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	**6.9**	< 0.2	< 0.2	**0.23 I**	**0.32 I**	< 0.2
Nickel	ug/L	100		< 2	< 2	< 2	**10**	< 2	< 2	< 2	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	**2.3 I**	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**4600**	**5700**	**3300**	**4500**	**3500**	**3800**	**6200**	**4300**	**6000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	**0.99 I**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	**4.2 I**	**39**	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	**29**	< 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	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011												
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0058	< 0.0058	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0062	< 0.0061	< 0.0061	< 0.006	< 0.0061	< 0.0061	< 0.006
Laboratory Method EPA 8260												
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16 UJ	< 0.16	< 0.16	< 0.16	< 0.16 UJ	< 0.16 UJ	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23 UJ	< 0.23	< 0.23	< 0.23	< 0.23 UJ	< 0.23 UJ	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15 UJ	< 0.15	< 0.15	< 0.15	< 0.15 UJ	< 0.15 UJ	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51 UJ	< 0.51	< 0.51	< 0.51	< 0.51 UJ	< 0.51 UJ	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	**0.41 I**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18 UJ	< 0.18	< 0.18	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33 UJ	< 0.33	< 0.33	< 0.33	< 0.33 UJ	< 0.33 UJ	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18 UJ	< 0.18	< 0.18	< 0.18	< 0.18 UJ	< 0.18 UJ	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

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TABLE 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

		PDWS	SDWS	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)
Laboratory Method EPA 8260												
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43 UJ	< 0.43	< 0.43	< 0.43	< 0.43 UJ	< 0.43 UJ	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22 UJ	< 0.22	< 0.22	< 0.22	< 0.22 UJ	< 0.22 UJ	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C												
Residues- Filterable (TDS)	mg/L		500	**190**	**190**	**34**	**210**	**58**	**36**	**200**	**76**	**230**

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; Q = Sample outside holding time; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Bold values indicate detections above the associated reporting limit

PDWS = Primary Drinking Water Standard, SDWS = Secondary Drinking Water Standard (FDEP Chapter 62-550)

= PDWS Exceedance = SDWS Exceedance

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

	Unit	Class I WQS	Class III WQS	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
				July 2012 Sampling Event			September 2012 Resampling		
Laboratory Method EPA 1631									
Mercury	ug/L	0.012	0.012	< 0.001	< 0.0002	< 0.001	--	--	--
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.024	< 0.0047	**0.023**	--	--	--
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L			< 0.05	< 0.01	**0.023 I**	--	--	--
Laboratory Method EPA 365.4									
Phosphorus- Total	mg/L			**0.24 I**	**0.033 I**	**0.23 I**	--	--	--
Laboratory Method EPA 6020									
Antimony	ug/L	14	4300	< 2.3	**15**	< 2.3	--	< 2.3	--
Arsenic	ug/L	10	50	**1.7 I**	< 1.3 I	**2.8**	--	--	--
Barium	ug/L	1000		**45**	**110**	**48**	--	--	--
Beryllium	ug/L	0.0077	0.13	< 0.25	**0.42 I**	< 0.25	--	**0.75**	--
Cadmium	ug/L	Calc	Calc	< 0.095	**0.3 I**	< 0.095	--	< 0.095	--
Chromium	ug/L	Calc	Calc	**4.3 I**	**23**	**2.6 I**	--	< 2.5	--
Cobalt	ug/L			**0.72**	**1.5**	**0.22 I**	--	--	--
Copper	ug/L	Calc	Calc	**1.2 I**	**45**	< 1.1	--	< 1.1	--
Iron	ug/L	1000	1000	**7600**	**530**	**760**	--	--	--
Lead	ug/L	Calc	Calc	**4.7**	**3.8**	**1.8**	--	**0.29 I**	--
Nickel	ug/L	Calc	Calc	**4.5 I**	**61**	**5.2**	--	**2.2 I**	--
Selenium	ug/L	5	5	**2.4 I**	**1.5 I**	< 1	--	--	--
Silver	ug/L	0.07	0.07	< 0.25	**1.6**	< 0.25	--	< 0.25	--
Thallium	ug/L	1.7	6.3	< 0.5	< 0.5	< 0.5	--	--	--
Vanadium	ug/L			**7 I**	**49**	**4.8 I**	--	--	--
Zinc	ug/L	Calc	Calc	**29**	**63**	**10 I**	--	< 8.3	--
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropan	ug/L			< 0.0057	< 0.0057	< 0.0057	--	--	--
1,2-Dibromoethane	ug/L			< 0.0061	< 0.0061	< 0.0061	--	--	--
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	--	--	--
1,1,1-Trichloroethane	ug/L			< 0.16	< 0.16	< 0.16	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.17	10.8	< 0.11	< 0.11	< 0.11	--	--	--
1,1,2-Trichloroethane	ug/L			< 0.2	< 0.2	< 0.2	--	--	--
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	--	--	--
1,1-Dichloroethene	ug/L	7	3.2	< 0.23	< 0.23	< 0.23	--	--	--
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	--	--	--
1,2-Dibromo-3-Chloropropan	ug/L			< 0.31	< 0.31	< 0.31	--	--	--
1,2-Dibromoethane	ug/L			< 0.15	< 0.15	< 0.15	--	--	--
1,2-Dichlorobenzene	ug/L			< 0.14	< 0.14	< 0.14	--	--	--
1,2-Dichloroethane	ug/L			< 0.15	< 0.15	< 0.15	--	--	--
1,2-Dichloropropane	ug/L			< 0.17	< 0.17	< 0.17	--	--	--
1,4-Dichlorobenzene	ug/L			< 0.2	< 0.2	< 0.2	--	--	--
2-Butanone	ug/L			< 2.6	< 2.6	**77**	--	--	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	--	--	--
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	--	--	--
Acetone	ug/L			< 2.8	< 2.8	**82**	--	--	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	--	--	--
Benzene	ug/L	1.18	71.28	< 0.13	< 0.13	< 0.13	--	--	--
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	--	--	--
Bromodichloromethane	ug/L	0.27	22	< 0.17	< 0.17	< 0.17	--	--	--
Bromoform	ug/L	4.3	360	< 0.18	< 0.18	< 0.18	--	--	--
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	--	--	--

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)

= WQS Exceedance

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

	Unit	Class I WQS	Class III WQS	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
				July 2012 Sampling Event			September 2012 Resampling		
Laboratory Method EPA 8260									
Carbon disulfide	ug/L			< 0.23	< 0.23	**1.1**	--	--	< 0.23
Carbon tetrachloride	ug/L	3	4.42	< 0.18	< 0.18	< 0.18	--	--	--
Chlorobenzene	ug/L			< 0.13	< 0.13	< 0.13	--	--	--
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	--	--	--
Chloroform	ug/L	5.67	470.8	< 0.12	< 0.12	< 0.12	--	--	--
Chloromethane	ug/L	5.67	470.8	< 0.18	< 0.18	< 0.18	--	--	--
cis-1,2-Dichloroethene	ug/L			< 0.21	< 0.21	< 0.21	--	--	--
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	--	--	--
Dibromochloromethane	ug/L	0.41	34	< 0.15	< 0.15	< 0.15	--	--	--
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	--	--	--
Ethylbenzene	ug/L			< 0.16	< 0.16	< 0.16	--	--	--
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	--	--	--
Methylene chloride	ug/L	4.65	1580	< 0.21	< 0.21	< 0.21	--	--	--
Styrene	ug/L			< 0.12	< 0.12	< 0.12	--	--	--
Tetrachloroethene	ug/L	3	8.85	< 0.19	< 0.19	< 0.19	--	--	--
Toluene	ug/L			< 0.14	< 0.14	**20**	--	--	< 0.14
trans-1,2-Dichloroethene	ug/L			< 0.26	< 0.26	< 0.26	--	--	--
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	--	--	--
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	--	--	--
Trichloroethene	ug/L	3	80.7	< 0.16	< 0.16	< 0.16	--	--	--
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	--	--	--
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	--	--	--
Vinyl chloride	ug/L			< 0.22	< 0.22	< 0.22	--	--	--
Xylenes, Total	ug/L			< 0.44	< 0.44	< 0.44	--	--	--
Laboratory Method FDEP DEP-SOP									
Ammonia- Un-ionized (NH3)	ug/L	20	20	< 0.28	< 0.28	**50**	--	--	**5.6**
Laboratory Method SM18 10200 H									
Chlorophyll a	ug/L			**46**	< 0.24	**32**	--	--	--
Laboratory Method SM18 2340 B									
Hardness- Calculated	mg/L			**38**	**10**	**170**	**15**	--	--
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L			**210**	**38**	**280**	--	--	--
Laboratory Method SM18 2540 D									
Residues- Nonfilterable (TSS	mg/L			**45**	**1.6**	**12**	--	--	--
Laboratory Method SM18 4500-P E									
Orthophosphate (P)	mg/L			**0.021**	**0.0074 I**	**0.03**	--	--	--
Laboratory Method SM18 5220 D									
Chemical Oxygen Demand	mg/L			**240**	**61**	**190**	--	--	--
Laboratory Method SM18 5310 C									
Carbon- Total Organic	mg/L			**84**	**9.8**	**48**	--	--	--
Laboratory Method SM18 9222 D (MF)									
Coliform Fecal	CFU/100 mL	800	800	**60**	**330**	**60 B**	--	--	--
Laboratory Method Total Nitrogen									
Nitrogen- Total	mg/L			**4**	**0.36**	**6.2**	--	--	--

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)

= WQS Exceedance

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

Well ID	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductivity (uS/cm)	Temperature (°C)	Turbidity (NTU)	Color (by observation)	Sheen
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)	4.66	1.0	25	25.4	18.67	None	No
MWB-3(S)	4.36	0.9	35	22.4	3.03	None	No
MWB-7(S)	5.16	0.0	177	26.2	15.59	Slight yellow tint	No
MWB-11(S)	3.90	0.1	247	22.8	2.77	None	No
MWB-12(S)	5.54	0.7	164	24.8	23.24	Slight brown tint	No
MWB-13(S)	5.81	0.7	422	25.8	48.45	Brown	No
MWB-17(S)	5.39	0.6	78	25.4	19.82	Light brown tint	No
MWB-19(S)	5.43	0.0	146	24.3	13.85	Slight brown tint	No
MWB-20(S)	4.23	0.0	76	24.8	19.13	Slight brown tint	No
MWB-21(S)	5.20	0.1	165	24.2	3.14	None	No
MWB-22(S)	5.98	0.3	274	24.2	5.18	Yellow tint	No
MWB-27(S)	5.39	0.0	95	23.4	55.91	Brown tint	No
MWB-29(S)	4.30	0.3	41	24.2	3.67	None	No
MWB-32(S)	5.83	0.2	370	23.3	489.4	Brown	No
MWB-33(S)	5.23	0.3	255	24.4	3.87	None	No
MWB-34(S)	6.23	0.2	888	24.3	3.81	None	No
Intermediate Wells							
MWB-2(I)	4.71	0.4	39	21.0	2.03	None	No
MWB-3(I)	4.45	0.1	42	20.2	1.47	None	No
MWB-7(I)	5.07	0.0	40	22.4	3.29	None	No
MWB-11(IR)	4.74	0.0	34	23.7	9.81	None	No
MWB-12(I)	5.15	0.3	39	24.7	3.16	None	No
MWB-13(I)	5.14	0.3	34	24.2	4.23	None	No
MWB-17(I)	5.02	0.0	29	22.3	1.47	None	No
MWB-19(I)	5.06	0.2	34	22.3	15.84	Slight whitish tint	No
MWB-27(I)	5.53	0.3	51	21.6	5.55	None	No
MWB-29(I)	5.02	0.5	35	21.8	14.66	None	No
MWB-32(I)	5.34	0.2	40	21.0	54.31	Slight whitish tint	No
MWB-34(I)	5.23	0.2	43	24.4	7.17	None	No
Deep Wells							
MWB-7(D)	7.41	0.0	352	22.2	2.05	None	No
MWB-12(D)	7.04	0.1	388	23.6	3.53	None	No
MWB-17(D)	5.45	0.0	56	21.6	1.14	None	No
MWB-19(D)	7.36	0.0	364	21.7	80.70	Slight whitish/gray tint	No
MWB-27(D)	5.84	0.2	94	21.1	0.40	None	No
MWB-29(D)	5.53	0.1	69	22.0	2.24	None	No
MWB-31(D)	7.32	0.0	368	21.0	1.87	None	No
MWB-32(D)	5.98	0.4	139	21.0	4.80	None	No
MWB-34(D)	7.04	0.2	429	22.6	1.12	None	No
Surface Water							
SW-1	6.13	5.1	105	25.1	31.86	Brown tint	No
SW-2	4.62	5.8	64	21.7	2.52	None	No
SW-3	7.16	4.6	457	28.3	26.49	Brown tint	No
Leachate							
LCS (COMP-1)	7.35	0.2	22890	38.2	521.4	Black	Yes
LDSS (TANK-6)	7.52	0.1	9123	33.8	34.55	Amber	Yes

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
NM - not measured because the well was dry at the time of sampling.
Measurements collected by ProTech in July 2012.

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

July 2012 Event

Parameter	Units	WQS Class I & Class III	SW-1		SW-2		SW-3		
			38		10		170		Total Hardness [1]
			3.6376		2.3026		5.1358		lnH [2]
			Result	Standard	Result	Standard	Result	Standard	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	<0.095	0.1	**0.3 I**	0.05	<0.095	0.4	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	4.3 I	39.0	**23.0**	13.1	2.6 I	133.1	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	1.2 I	4.1	**45.0**	1.3	<1.1	14.7	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	**4.7**	0.9	**3.8**	0.2	1.8	6.3	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	4.5 I	23.0	**61**	7.4	5.2	81.7	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	29	52.8	**63**	17.0	10	187.8	

September 2012 Resampling Event*

Parameter	Units	WQS Class I & Class III	SW-1		SW-2		
			15		10		Total Hardness [1]
			2.7081		2.3026		lnH [2]
			Result	Standard	Result	Standard	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	<0.095	0.1	<0.095	0.05	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	4.3 I	18.2	<2.5	13.1	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	1.2 I	1.8	<1.1	1.3	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	**4.7**	0.3	**0.29 I**	0.2	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	4.5 I	10.5	2.2 I	7.4	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	**29**	24.0	<8.3	17.0	

Notes:

ug/L - micrograms per liter

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

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank.

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

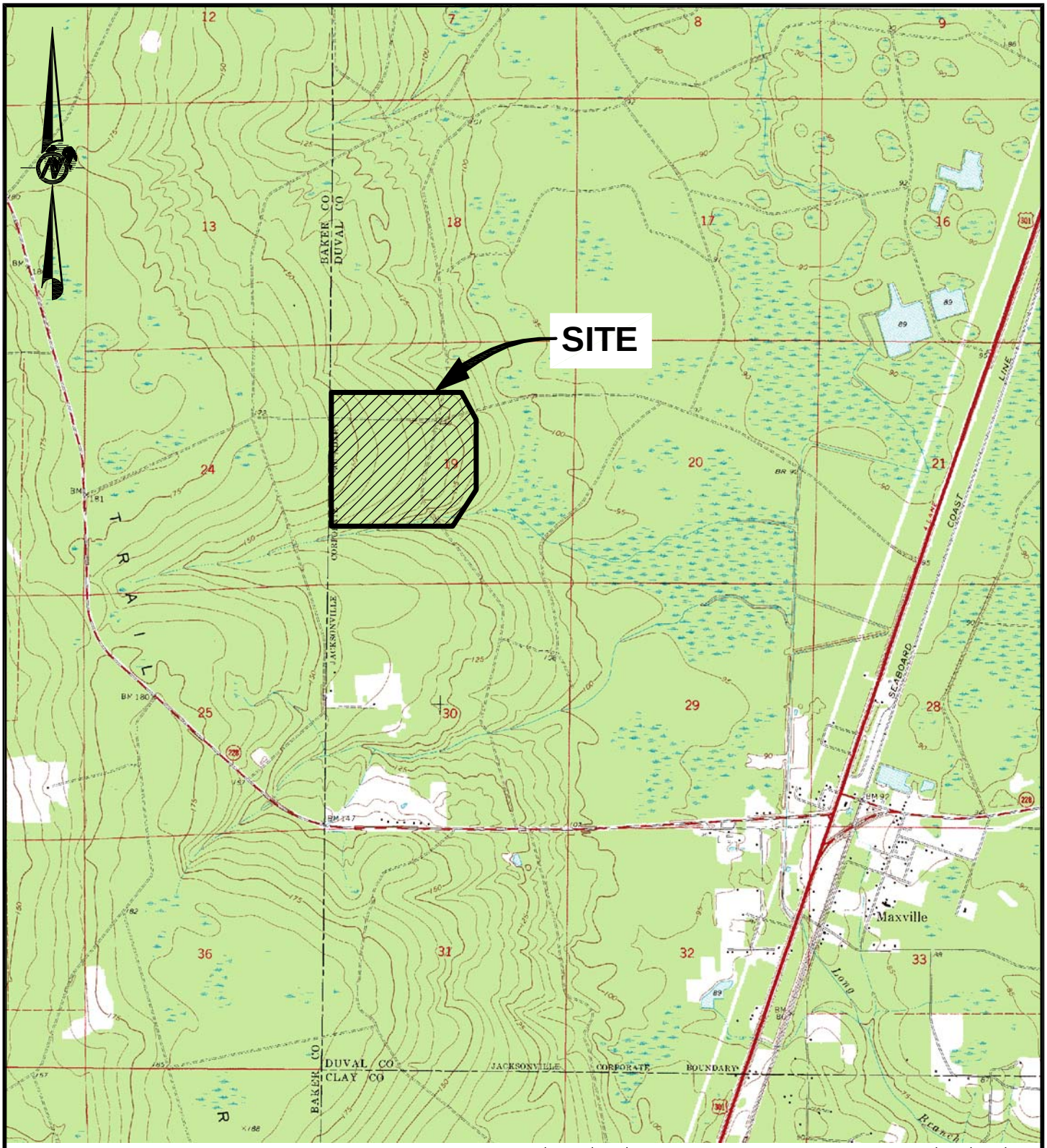
[1] - Total mesured total hardness (H) is reported in milligrams/L of CaCO3 in the Test America laboratory report

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

*SW-1 metals detection from the July 2012 event are compared to WQS calculated using hardness measured in September 2012; SW-2 metals detections were resampled in September 2012 and compared to WQS calculated from the July 2012 event.

Golder Associates

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

3000 0 3000
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
1	-	-	-	-		

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
SITE LOCATION

Golder Associates
Atlanta, Georgia

PROJECT No.		11390141	FILE No. 11390141-01 Site Loc	
DESIGN	-	-	SCALE AS SHOWN	REV. -
CADD	RJC	09/12		
CHECK	MJS	09/12	1	
REVIEW	KSB	09/12		

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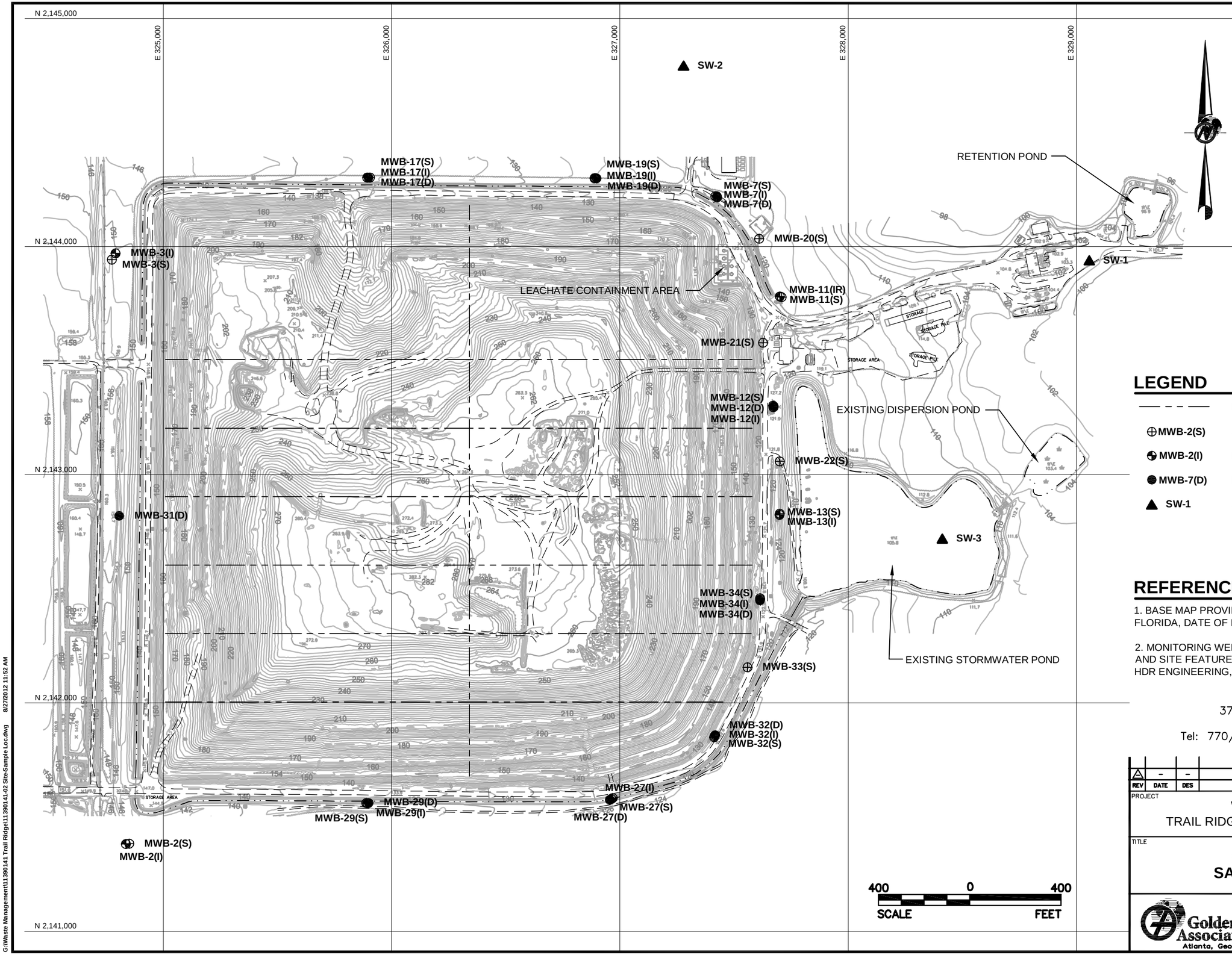

LEGEND

PHASE BOUNDARY	
MWB-2(S)	SHALLOW MONITORING WELL
MWB-2(I)	INTERMEDIATE MONITORING WELL
MWB-7(D)	DEEP MONITORING WELL
SW-1	SURFACE WATER MONITORING POINT

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

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
1	-	-	-	-		

PROJECT

WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE

SITE LAYOUT AND SAMPLING LOCATIONS

Golder Associates
Atlanta, Georgia

PROJECT No.		11390141	FILE No.	11390141-02 Site-Sample Loc	
DESIGN	–	–	SCALE	AS SHOWN	REV. –
CADD	RJC	09/12			
CHECK	MJS	09/12			
REVIEW	KSB	09/12			

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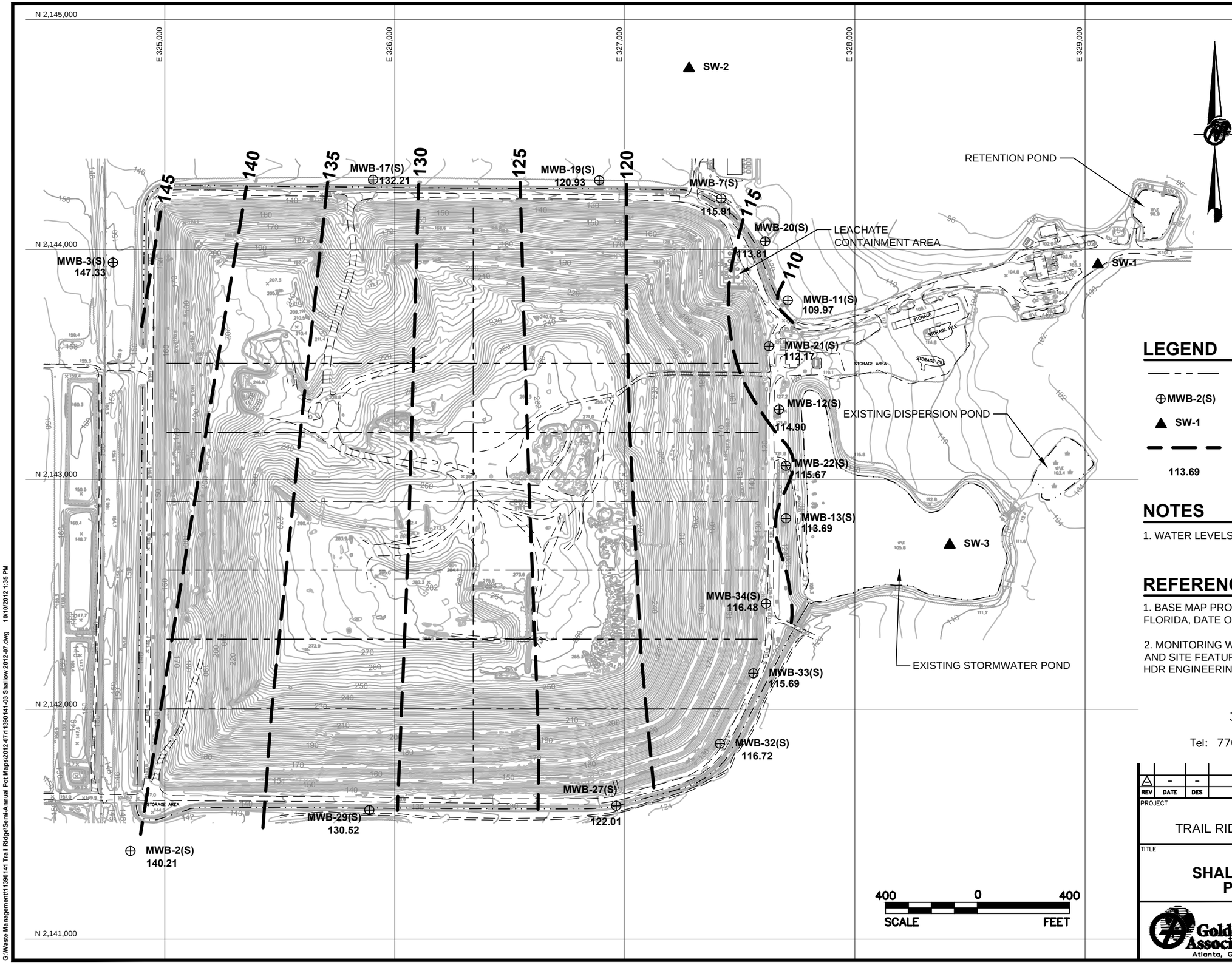

LEGEND

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

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON JULY 23, 2012.

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
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Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
0	-	-	-	-		

PROJECT

WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE

JULY 2012
SHALLOW SURFICIAL AQUIFER POTENTIOMETRIC MAP

Golder Associates Atlanta, Georgia

PROJECT No.		11390141	FILE No.	11390141-03 Shallow 2012-07	
DESIGN	–	–	SCALE	AS SHOWN	REV. –
CADD	RJC	10/12	3		
CHECK	MJS	10/12			
REVIEW	KSB	10/12			

G:\Waste Management\11390141 Trail Ridge\Semi-Annual Pot Maps\2012-07\11390141-03 Shallow 2012-07.dwg 10/10/2012 1:35 PM

N 2,145,000
N 2,144,000
N 2,143,000
N 2,142,000
N 2,141,000
E 325,000
E 326,000
E 327,000
E 328,000
E 329,000

SW-2
SW-1
SW-3

MWB-17(I) 135.88
MWB-19(I) 121.06
MWB-7(I) 118.32
MWB-3(I) 139.55
MWB-11(IR) 109.63
MWB-12(I) 117.76
MWB-13(I) 109.11
MWB-34(I) 117.86
MWB-32(I) 118.45
MWB-29(I) 134.42
MWB-27(I) 124.02
MWB-2(I) 137.95

135 130 125 120 115 110 110

RETENTION POND
LEACHATE CONTAINMENT AREA
EXISTING DISPERSION POND
EXISTING STORMWATER POND
STORAGE AREA
STORAGE
STORAGE PILE

400 0 400
SCALE FEET

LEGEND

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

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON JULY 23, 2012.

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

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
0	–	–	–	–		

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
JULY 2012
INTERMEDIATE SURFICIAL AQUIFER POTENTIOMETRIC MAP

Golder Associates Atlanta, Georgia

PROJECT No.		11390141	FILE No.	11390141-04 Intermediate 2012-07	
DESIGN	–	–	SCALE	AS SHOWN	REV. –
CADD	RJC	10/12	4		
CHECK	MJS	10/12			
REVIEW	KSB	10/12			

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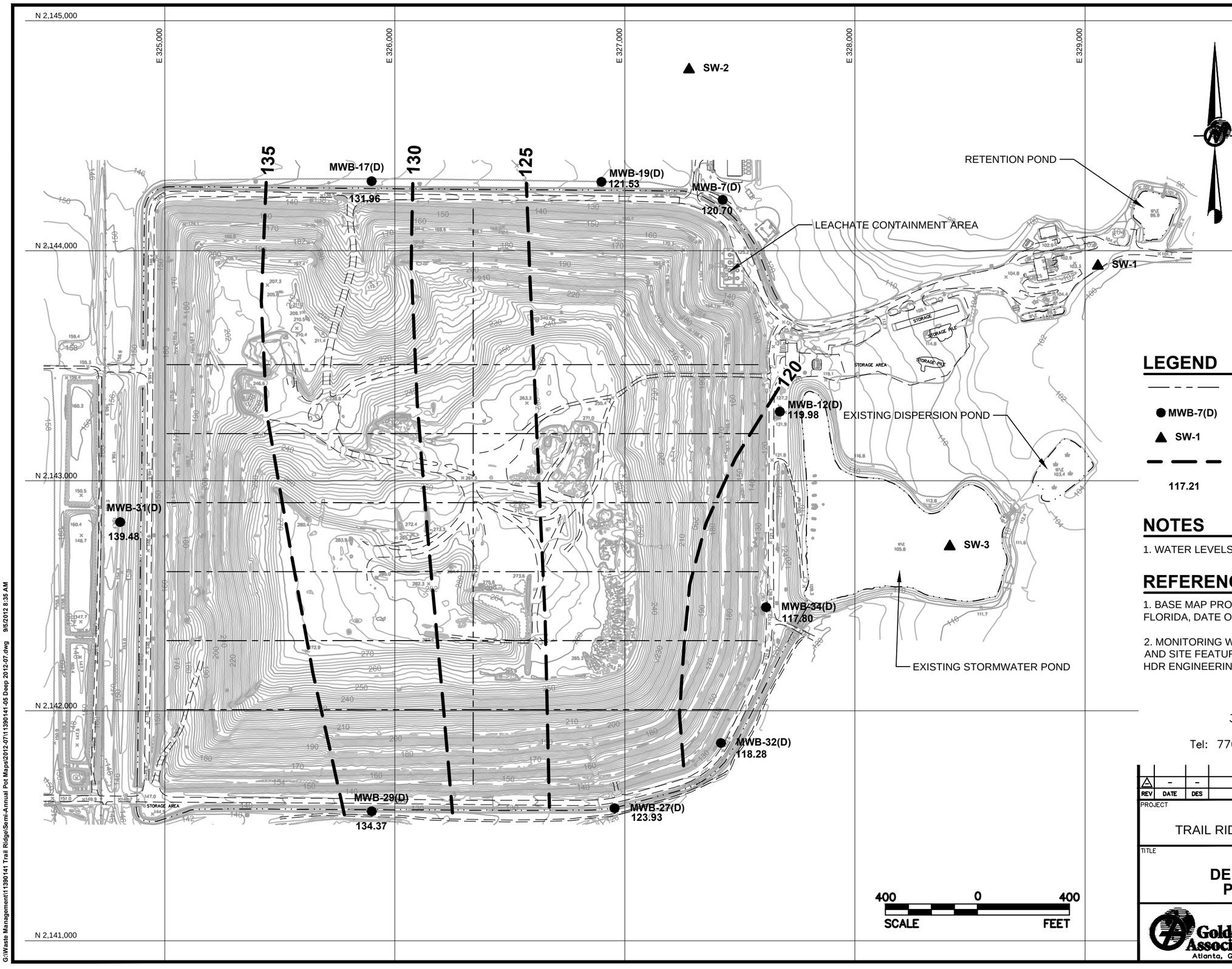

LEGEND

— — —	PHASE BOUNDARY
● MWB-7(D)	DEEP MONITORING WELL
▲ SW-1	SURFACE WATER MONITORING POINT
— — —	POTENTIOMETRIC CONTOUR (FT. MSL)
117.21	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON JULY 23, 2012.

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

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
0	–	–	–	–		

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
JULY 2012
DEEP SURFICIAL AQUIFER
POTENTIOMETRIC MAP

Golder Associates Atlanta, Georgia

PROJECT No.		11390141	FILE No.	11390141-05 Deep 2012-07	
DESIGN	–	–	SCALE	AS SHOWN	REV. –
CADD	RJC	10/12			
CHECK	MJS	10/12		5	
REVIEW	KSB	10/12			

G:\Waste Management\11390141 Trail Ridge\Semi-Annual Pot Maps\2012-07\11390141-05 Deep 2012-07.dwg 9/5/2012 8:35 AM

APPENDIX A
INSTRUMENT CALIBRATION FIELD RECORDS

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

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

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

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

Standard A 84 $^{uS}/_{cm}$ PINE ENVIRONMENTAL EXP: DEC 2012

Standard B 1413 $^{uS}/_{cm}$ PINE ENVIRONMENTAL EXP: DEC 2012

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/09/25	0740	A	84	AUTO CAL	-	YES	INIT	DSA
12/09/25	0740	B	1413	"	-	YES	INIT	DSA
12/09/26	0800	A	84	AUTO CAL	-	YES	CONT	DSA
"	"	B	1413	"	-	YES	CONT	DSA
12/09/27	0730	A	84	AUTO CAL	-	YES	CONT	DSA
"	"	B	1413	"	-	YES	CONT	DSA
12/09/28	0700	A	84	AUTO CAL	-	YES	CONT	DSA
12/09/28	0700	B	1413	AUTO CAL	-	YES	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 108080

PARAMETER: *[check only one]*

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

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

Standard A 1000 NTU HF SCIENTIFIC LOT# 11014 EXP: OCT 2013
Standard B 10.0 NTU HF SCIENTIFIC LOT# 11013 EXP: OCT 2013
Standard C 0.02 NTU HF SCIENTIFIC LOT# 11004 EXP: OCT 2013

DATE (yy/mm/dd)	TIME (hr.min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/09/25	0740	A	1000	AUTO CAL	–	YES	INIT	DSA
"	"	B	10.0	"	–	YES	INIT	DSA
"	"	C	0.02	"	–	YES	INIT	DSA
12/09/26	0800	A	1000	AUTO CAL	–	YES	CONT	DSA
"	"	B	10.0	"	–	YES	CONT	DSA
"	"	C	0.02	"	–	YES	CONT	DSA
12/09/27	0730	A	1000	AUTO CAL	–	YES	CONT	DSA
"	"	B	10.0	"	–	YES	CONT	DSA
"	"	C	0.02	"	–	YES	CONT	DSA
12/09/28	0700	A	1000	AUTO CAL	–	YES	CONT	DSA
"	"	B	10.0	"	–	YES	CONT	DSA
"	"	C	0.02	"	–	YES	CONT	DSA

DEP-SOP-001/01
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 HANNA CAL. SOLUTION 7.01 (std) EXP: 04/2013
Standard B HANNA CAL SOLUTION 4.01 (std) EXP: 04/2013
Standard C HANNA CAL. SOLUTION 10.01 (std) EXP: 04/2013

DATE (yy/mm/dd)	TIME (hr:mi)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/09/25	0740	A	7.01	AUTO CAL	–	YES	INIT	DCA
"	"	B	4.01	"	–	YES	INIT	DCA
"	"	C	10.01	"	–	YES	INIT	DCA
12/09/26	0800	A	7.01	AUTO CAL	–	YES	CONT	DCA
"	"	B	4.01	"	–	YES	CONT	DCA
"	"	C	10.01	"	–	YES	CONT	DCA
12/09/27	0730	A	7.01	AUTO CAL	–	YES	CONT	DCA
"	"	B	4.01	"	–	YES	CONT	DCA
"	"	C	10.01	"	–	YES	CONT	DCA
12/09/28	0900	A	7.01	AUTO CAL	–	YES	CONT	DCA
"	"	B	4.01	"	–	YES	CONT	DCA
"	"	C	10.01	"	–	YES	CONT	DCA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

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

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

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/09/25	0940	A	8.530	8.49	0.04	Yes	INIT	DSA
12/09/26	0800	A	8.466	8.38	0.09	Yes	CONT	DSA
12/09/27	0730	A	8.514	8.49	0.02	Yes	CONT	DSA
12/09/28	0700	A	8.498	8.43	0.06	Yes	CONT	DSA

Table FS 2200-2
Dissolved Oxygen Saturation

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

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

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

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

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

Standard A SATURATED AIR
Standard B _____
Standard C _____

DATE (mm/dd/yy)	TIME (military)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/03/23	0900	A	8.233	8.19	0.04	Yes	INIT	DA
12/03/24	0700	A	8.325	8.28	0.05	Yes	CONT	DA
12/03/25	0700	A	8.325	8.30	0.03	Yes	CONT	DA
12/03/26	0600	A	8.356	8.32	0.04	Yes	CONT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

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

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

DEP-SOP-001/01
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 HANNA CAL. SOLUTION 7.01 (std) EXP: 04/2013
Standard B HANNA CAL SOLUTION 4.01 (std) EXP: 04/2013
Standard C HANNA CAL SOLUTION 10.01 (std) EXP: 04/2013

DATE (YY/MM/DD)	TIME (HH:MM)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	%DEV	CALIBRATED (YES / NO)	TYPE (INIT/CONT)	SAMPLER INITIALS
12/03/23	0900	A	7.01	AUTO CAL	-	YES	INIT	DK
"	"	B	4.01	"	-	YES	INIT	DK
		C	10.01		-	YES	INIT	DK
12/03/24	0700	A	7.01	AUTO CAL	-	YES	CONT	DK
"	"	B	4.01	"	-	YES	CONT	DK
		C	10.01	"	-	YES	CONT	DK
12/03/25	0700	A	7.01	AUTO CAL	-	YES	CONT	DK
"	"	B	4.01	"	-	YES	CONT	DK
		C	10.01		-	YES	CONT	DK
12/03/26	0600	A	7.01	AUTO CAL	-	YES	CONT	DK
"	"	B	4.01	"	-	YES	CONT	DK
		C	10.01		-	YES	CONT	DK

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: 640-39625-1
Client Project/Site: Trail Ridge Landfill

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

Attn: Mr. Mike Smilley

Authorized for release by:
8/27/2012 2:18:07 PM

Amy Marks
Project Manager II
amy.marks@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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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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.
L	Off-scale high. Actual value is known to be greater than the value given.
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
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 640-39625-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-39625-1

Comments
No additional comments.

Receipt
The samples were received on 7/25/2012 7:30 AM, 7/25/2012 1:55 PM, 7/26/2012 8:00 AM and 7/27/2012 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.8º C, 0.8º C, 0.8º C, 0.9º C, 0.9º C, 1.0º C, 1.0º C, 1.1º C, 1.3º C and 1.3º C.

Samples listed on COC number 640-33754-8202.1 (2 pages) were received over two days (7/25/2012 1:55 PM and 7/26/2012 8:00 AM). The receipt date and time of the associated samples are all reflected as 7/25/2012 1:55PM in the attached report; however, some containers were received on 7/26/2012 8:00AM. The laboratory did not record which containers were received in each shipment; however, both receipt dates and times for both days were recorded electronically. The time of the first receipt was recorded in the laboratory information management system (LIMS) of TestAmerica login number 640-39647 for all samples on 7/25/2012. The time of the second receipt was recorded in the LIMS under the main receipt information section of TestAmerica login number 640-39647 on 7/26/2012.

GC/MS VOA
Method 8260C: A significant amount of sediment was present in the following sample: MWB-13(S)c (640-39625-7). This sample was decanted prior to analysis.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 94569 were outside control limits for multiple analytes. None of the affected analytes were detected in the associated samples. Associated results are qualified "J".

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 94569 were outside control limits for some analytes. The affected target analyte recoveries are flagged "J".

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 94650 were outside control limits for multiple analytes. The recoveries were biased high and none of the affected analytes were detected in the associated samples. Associated results are qualified "J".

Method 8260C: The precision of the LCS/LCSD in batch 94651 was outside control limits for Vinyl acetate. All recovery criteria were met.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method 1631E: The following samples were diluted 1:5 due to the nature of the sample matrix: SW-1 (640-39703-1), SW-3 (640-39703-3). 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 - 1.0mL bromine monochloride (BrCl) solution. Additional BrCl was required to ensure complete sample oxidation for the following samples: SW-1 (640-39703-1), SW-3 (640-39703-3). 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.

Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch160031 were outside control limits. The associated laboratory control sample and duplicate (LCS\LCSD) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Field Service / Mobile Lab

Job ID: 640-39625-1 (Continued)

Laboratory: TestAmerica Tallahassee (Continued)

Field data collected and provided by Professional Technical Services.

General Chemistry

Method 350.1: Due to the high concentration of ammonia, the matrix spike / matrix spike duplicate (MS/MSD) for batch 245617 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 245778 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 353.2: The following sample was diluted due to dark color: SW-1 (640-39703-1). Elevated reporting limits (RL) are provided.

Method SM 5310C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 94609 were outside control limits. Matrix interference is suspected. The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Subcontract Work

Method 5210B - BOD: This method was subcontracted to Ackuritlabs, Inc.. Results are attached in full as received by TestAmerica.

Method 9222D - Fecal Coliform: This method was subcontracted to Diversified Environmental Laboratories. Results are attached in full as received by TestAmerica.

Method SM 10200H - Chlorophyll a: This method was subcontracted to Harbor Branch Environmental Lab. Results are attached in full as received by TestAmerica.

Detection Summary

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-29(S)c — Lab Sample ID: 640-39625-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	15		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	330		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	6.4		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.086		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	10		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.3				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	41				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.67				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	130.52				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(I)c — Lab Sample ID: 640-39625-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	39		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	390		100	33	ug/L	1		6020	Total Recoverable
Lead	0.87	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.0		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.093		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	30		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.02				SU	1		Field Sampling	Total/NA
Field Temperature	21.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	35				umhos/cm	1		Field Sampling	Total/NA
Turbidity	14.66				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	134.42				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(D)c — Lab Sample ID: 640-39625-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	56		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	3.0	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Iron	730		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.7		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.098		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	36		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(D)c (Continued) — Lab Sample ID: 640-39625-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.53				SU	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	69				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.24				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	134.37				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-31(D)b — Lab Sample ID: 640-39625-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	93		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	3.1	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Iron	750		100	33	ug/L	1		6020	Total Recoverable
Lead	0.23	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	6.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.0		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.32				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	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	368				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.87				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	139.48				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(S)b — Lab Sample ID: 640-39625-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	I	25	2.8	ug/L	1		8260C	Total/NA
Barium	7.6		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	2.6	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
Iron	460		100	33	ug/L	1		6020	Total Recoverable
Lead	1.2	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	2.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.2	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	1.9	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.074		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.13		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.12		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	52		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MWB-2(S)b (Continued) — Lab Sample ID: 640-39625-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.66				SU	1		Field Sampling	Total/NA
Field Temperature	25.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	25				umhos/cm	1		Field Sampling	Total/NA
Turbidity	18.67				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	140.21				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(I)b — Lab Sample ID: 640-39625-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	21		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	340		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	6.8		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	16		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA
Field Temperature	21.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	39				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.03				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	137.95				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(S)c — Lab Sample ID: 640-39625-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	26		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	13		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.26	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	5.2		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	2000		100	33	ug/L	1		6020	Total Recoverable
Lead	3.8		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	4.7	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	21		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	45		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	58		10	3.8	ug/L	1		6020	Total Recoverable

Client Sample ID: MWB-13(S)c (Continued) — Lab Sample ID: 640-39625-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	10	I	20	8.3	ug/L	1		6020	Total Recoverable
Chloride	53		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.073		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.26		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.26		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	260		10	10	mg/L	1		SM 2540C	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	5.81				SU	1		Field Sampling	Total/NA
Field Temperature	25.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	422				umhos/cm	1		Field Sampling	Total/NA
Turbidity	48.45				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	113.7				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(I)c — Lab Sample ID: 640-39625-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	33		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	360		100	33	ug/L	1		6020	Total Recoverable
Lead	0.57	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.1	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	4.6	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.084		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	36		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.14				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	34				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.23				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	109.11				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-22(S)c — Lab Sample ID: 640-39625-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	3.8	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	97	I	100	33	ug/L	1		6020	Total Recoverable
Selenium	1.3	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	15		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	20		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.090		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA

Client Sample ID: MWB-22(S)c (Continued) — Lab Sample ID: 640-39625-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.98				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.18				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	115.67				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(S)c — Lab Sample ID: 640-39625-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	6.0		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	2.8	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Iron	65	I	100	33	ug/L	1		6020	Total Recoverable
Lead	0.47	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Selenium	6.9		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	4.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	65		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	8.5		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.091		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.075		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.075		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.54				SU	1		Field Sampling	Total/NA
Field Temperature	24.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	164				umhos/cm	1		Field Sampling	Total/NA
Turbidity	23.24				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	114.9				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(1)c — Lab Sample ID: 640-39625-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	51		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	370		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.6	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.068		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	24		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.15				SU	1		Field Sampling	Total/NA
Field Temperature	24.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(1)c (Continued) — Lab Sample ID: 640-39625-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	39				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.16				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	117.76				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(D)c — Lab Sample ID: 640-39625-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	920		100	33	ug/L	1		6020	Total Recoverable
Sodium	5.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.0	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.17		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	23.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	388				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.53				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	119.98				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 01 39625 — Lab Sample ID: 640-39625-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.1	I	10	2.6	ug/L	1		8260C	Total/NA

Client Sample ID: Field Blank 01 39647 — Lab Sample ID: 640-39647-1

No Detections

Client Sample ID: MWB-11(1)(R)c — Lab Sample ID: 640-39647-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	46		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	540		100	33	ug/L	1		6020	Total Recoverable
Lead	0.58	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.6	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	11		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	4.9	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.060		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	30		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.74				SU	1		Field Sampling	Total/NA
Field Temperature	23.7				Degrees C	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(1)(R)c (Continued) — Lab Sample ID: 640-39647-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	34				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.81				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	109.65				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(S)c — Lab Sample ID: 640-39647-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	86		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.50		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	230		100	33	ug/L	1		6020	Total Recoverable
Selenium	1.2	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	17		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	33		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.042	I	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.042		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	3.9				SU	1		Field Sampling	Total/NA
Field Temperature	22.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	247				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.77				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	109.94				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-20(S)c — Lab Sample ID: 640-39647-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	11		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	240		100	33	ug/L	1		6020	Total Recoverable
Lead	0.80	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	6.1	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	5.8		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.16		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	56		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.23				SU	1		Field Sampling	Total/NA
Field Temperature	24.8				Degrees C	1		Field Sampling	Total/NA

Client Sample ID: MWB-20(S)c (Continued) — Lab Sample ID: 640-39647-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	76				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.13				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	113.81				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(S)c — Lab Sample ID: 640-39647-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	6.5		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	54	I	100	33	ug/L	1		6020	Total Recoverable
Lead	0.52	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Selenium	1.2	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	13		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	7.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	14		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.20		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	1.1		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	1.1		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.16				SU	1		Field Sampling	Total/NA
Field Temperature	26.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	177				umhos/cm	1		Field Sampling	Total/NA
Turbidity	15.59				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	115.88				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(1)c — Lab Sample ID: 640-39647-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	50		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	340		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.9	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.056		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	20		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.07				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	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	40				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.29				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	118.31				ft	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-7(D)c — Lab Sample ID: 640-39647-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	76		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	290		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.6		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.0	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.15		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	22.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	352				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.05				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	120.68				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(S)c — Lab Sample ID: 640-39647-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	17		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.15	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	460		100	33	ug/L	1		6020	Total Recoverable
Lead	0.37	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	7.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.6	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	14	I	20	8.3	ug/L	1		6020	Total Recoverable
Chloride	10		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	94		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.43				SU	1		Field Sampling	Total/NA
Field Temperature	24.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	146				umhos/cm	1		Field Sampling	Total/NA
Turbidity	13.85				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	120.91				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(I)c — Lab Sample ID: 640-39647-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	69		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.68		0.50	0.095	ug/L	1		6020	Total Recoverable
Cobalt	0.93		0.50	0.15	ug/L	1		6020	Total Recoverable

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

Lab Sample ID: 640-39647-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	510		100	33	ug/L	1		6020	Total Recoverable
Lead	0.61	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.8	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.4	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	14	I	20	8.3	ug/L	1		6020	Total Recoverable
Chloride	4.4	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.076		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	22		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Whitish Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.06				SU	1		Field Sampling	Total/NA
Field Temperature	22.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	34				umhos/cm	1		Field Sampling	Total/NA
Turbidity	15.84				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	121.05				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-39647-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	4.8	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	320		100	33	ug/L	1		6020	Total Recoverable
Lead	0.71	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.4	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	6.6		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.12		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	62		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Lt Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.39				SU	1		Field Sampling	Total/NA
Field Temperature	25.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	78				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.82				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	132.2				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-39647-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34		5.0	1.3	ug/L	1		6020	Total Recoverable

Client Sample ID: MWB-17(I)c (Continued) — Lab Sample ID: 640-39647-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	310		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.2	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.041	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	8.0		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.02				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
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	29				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.47				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	135.87				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(D)c — Lab Sample ID: 640-39647-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.41	I	1.0	0.23	ug/L	1		8260C	Total/NA
Barium	32		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	340		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.2	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	5.4		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.068		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.040	I	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.040		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	34		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.45				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	56				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.14				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	131.94				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-3(S)b — Lab Sample ID: 640-39647-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	9.5		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	130		100	33	ug/L	1		6020	Total Recoverable
Sodium	2.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	3.9	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	3.0	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.035	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	8.0		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MWB-3(S)b (Continued) — Lab Sample ID: 640-39647-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.36				SU	1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	35				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.03				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	147.32				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-3(I)b — Lab Sample ID: 640-39647-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	23		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	700		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.6		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.8		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.037	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	10		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.45				SU	1		Field Sampling	Total/NA
Field Temperature	20.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	42				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.47				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	139.53				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(I)c — Lab Sample ID: 640-39647-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1		1.0	0.23	ug/L	1		8260C	Total/NA
Barium	52		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	420		100	33	ug/L	1		6020	Total Recoverable
Lead	0.25	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.5	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.079		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	34		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.53				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	51				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.55				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	124.04				ft	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-27(D)c — Lab Sample ID: 640-39647-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	53		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	680		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.0		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.11		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.011	I	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.011		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	58		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.84				SU	1		Field Sampling	Total/NA
Field Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	94				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.4				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	123.92				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(D)c — Lab Sample ID: 640-39647-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	140		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	3.1		0.50	0.25	ug/L	1		6020	Total Recoverable
Cadmium	1.5		0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	23		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	2.7		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	8.5		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	15000		100	33	ug/L	1		6020	Total Recoverable
Lead	6.9		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	10		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	2.3	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	4.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Thallium	0.99	I	1.0	0.50	ug/L	1		6020	Total Recoverable
Vanadium	39		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	29		20	8.3	ug/L	1		6020	Total Recoverable
Dissolved Barium	98		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Iron	400		100	33	ug/L	1		6020	Dissolved
Dissolved Sodium	4.3		0.50	0.25	mg/L	1		6020	Dissolved
Chloride	4.1	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.11		0.050	0.026	mg/L	1		350.1	Total/NA

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

Lab Sample ID: 640-39647-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	SI Whitish/Gray Tint				PCU	1		Field Sampling	Total/NA
Field pH	7.36				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	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	364				umhos/cm	1		Field Sampling	Total/NA
Turbidity	80.7				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	121.53				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-39647-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	9.9		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	5.8		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.26	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.6	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	370		100	33	ug/L	1		6020	Total Recoverable
Lead	1.5		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.3	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	8.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	11		10	3.8	ug/L	1		6020	Total Recoverable
Dissolved Barium	7.5		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Chromium	3.2	I	5.0	2.5	ug/L	1		6020	Dissolved
Dissolved Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Dissolved
Dissolved Iron	120		100	33	ug/L	1		6020	Dissolved
Dissolved Lead	0.21	I	1.5	0.20	ug/L	1		6020	Dissolved
Dissolved Nickel	2.7	I	5.0	2.0	ug/L	1		6020	Dissolved
Dissolved Sodium	9.3		0.50	0.25	mg/L	1		6020	Dissolved
Dissolved Vanadium	9.7	I	10	3.8	ug/L	1		6020	Dissolved
Chloride	9.7		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.20		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.39				SU	1		Field Sampling	Total/NA
Field Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	95				umhos/cm	1		Field Sampling	Total/NA
Turbidity	55.91				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	121.99				ft	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 02 39647 — Lab Sample ID: 640-39647-19

No Detections

Client Sample ID: Field Blank 02 39701 — Lab Sample ID: 640-39701-1

No Detections

Client Sample ID: MWB-32(I)d — Lab Sample ID: 640-39701-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	37		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	260		100	33	ug/L	1		6020	Total Recoverable
Lead	1.8		1.5	0.20	ug/L	1		6020	Total Recoverable
Selenium	1.3	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Dissolved Barium	31		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Iron	230		100	33	ug/L	1		6020	Dissolved
Dissolved Lead	0.45	I	1.5	0.20	ug/L	1		6020	Dissolved
Dissolved Sodium	3.1		0.50	0.25	mg/L	1		6020	Dissolved
Chloride	4.7	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.039	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	34		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Whitish Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.34				SU	1		Field Sampling	Total/NA
Field Temperature	21.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	40				umhos/cm	1		Field Sampling	Total/NA
Turbidity	54.31				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	118.42				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(S)d — Lab Sample ID: 640-39701-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.4		1.0	0.14	ug/L	1		8260C	Total/NA
Arsenic	1.7	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	39		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.26	I	0.50	0.25	ug/L	1		6020	Total Recoverable
Cadmium	0.23	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	17		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.57		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	10		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	1400		100	33	ug/L	1		6020	Total Recoverable
Lead	20		1.5	0.20	ug/L	1		6020	Total Recoverable

Client Sample ID: MWB-32(S)d (Continued) — Lab Sample ID: 640-39701-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	2.9	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	2.9		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	14		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	17		10	3.8	ug/L	1		6020	Total Recoverable
Dissolved Barium	19		5.0	1.3	ug/L	1		6020	Dissolved
Dissolved Cobalt	0.23	I	0.50	0.15	ug/L	1		6020	Dissolved
Dissolved Iron	450		100	33	ug/L	1		6020	Dissolved
Dissolved Lead	0.30	I	1.5	0.20	ug/L	1		6020	Dissolved
Dissolved Sodium	15		0.50	0.25	mg/L	1		6020	Dissolved
Mercury	0.33		0.20	0.091	ug/L	1		7470A	Total/NA
Chloride	26		10	2.0	mg/L	10		300.0	Total/NA
Ammonia	0.29		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	250		10	10	mg/L	1		SM 2540C	Total/NA
Color	Brown				PCU	1		Field Sampling	Total/NA
Field pH	5.83				SU	1		Field Sampling	Total/NA
Field Temperature	23.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	370				umhos/cm	1		Field Sampling	Total/NA
Turbidity	489.4				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	116.69				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(S)d — Lab Sample ID: 640-39701-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	7.7		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.47	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.2	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	230		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.1	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.2	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	16		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.9	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	74		20	8.3	ug/L	1		6020	Total Recoverable
Chloride	6.9		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.78		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	440		10	10	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	6.23				SU	1		Field Sampling	Total/NA
Field Temperature	24.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	888				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.81				NTU	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(S)d (Continued) — Lab Sample ID: 640-39701-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ground Water Elevation	116.45				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(I)d — Lab Sample ID: 640-39701-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	49		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	410		100	33	ug/L	1		6020	Total Recoverable
Lead	0.46	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	3.2	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.0	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	3.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.9	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.067		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	26		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.23				SU	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	43				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.17				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	117.83				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(D)d — Lab Sample ID: 640-39701-6

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	450		100	33	ug/L	1		6020	Total Recoverable
Sodium	6.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.6	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	429				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	117.78				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-33(S)d — Lab Sample ID: 640-39701-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	31		5.0	1.3	ug/L	1		6020	Total Recoverable

Client Sample ID: MWB-33(S)d (Continued) — Lab Sample ID: 640-39701-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.32	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	640		100	33	ug/L	1		6020	Total Recoverable
Sodium	13		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	6.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	15		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.67		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.033	I	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.033		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.23				SU	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	255				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.87				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	115.66				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-21(S)c — Lab Sample ID: 640-39701-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	13		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	430		100	33	ug/L	1		6020	Total Recoverable
Sodium	1.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	3.9	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	1.4	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.2				SU	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	165				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.14				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	112.14				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(D)d — Lab Sample ID: 640-39701-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	51		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	570		100	33	ug/L	1		6020	Total Recoverable
Lead	0.32	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.3		0.50	0.25	mg/L	1		6020	Total Recoverable

Client Sample ID: MWB-32(D)d (Continued) — Lab Sample ID: 640-39701-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.8	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia	0.10		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	76		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.98				SU	1		Field Sampling	Total/NA
Field Temperature	21.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	139				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.8				NTU	1		Field Sampling	Total/NA
Ground Water Elevation	118.27				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 03 39701 — Lab Sample ID: 640-39701-10

No Detections

Client Sample ID: SW-1 — Lab Sample ID: 640-39703-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	45		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	4.3	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.72		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.2	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	7600		100	33	ug/L	1		6020	Total Recoverable
Lead	4.7		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	4.5	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	2.4	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Vanadium	7.0	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	29		20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	38		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Phosphorus	0.24	I	0.50	0.12	mg/L	1		365.4	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	45		3.1	3.1	mg/L	1		SM 2540D	Total/NA
ortho-Phosphate	0.021		0.010	0.0014	mg/L	1		SM 4500 P E	Total/NA
Chemical Oxygen Demand	240		20	10	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	84		5.0	1.8	mg/L	5		SM 5310C	Total/NA
Nitrogen, Total	4.0		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	6.13				SU	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.1				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	105				umhos/cm	1		Field Sampling	Total/NA
Turbidity	31.86				NTU	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-2 — Lab Sample ID: 640-39703-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	15		5.0	2.3	ug/L	1		6020	Total Recoverable
Arsenic	1.3	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	110		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.42	I	0.50	0.25	ug/L	1		6020	Total Recoverable
Cadmium	0.30	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	23		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	1.5		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	45		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	530		100	33	ug/L	1		6020	Total Recoverable
Lead	3.8		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	61		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.5	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Silver	1.6		1.0	0.25	ug/L	1		6020	Total Recoverable
Vanadium	49		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	63		20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	10		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Phosphorus	0.033	I	0.10	0.024	mg/L	1		365.4	Total/NA
Total Dissolved Solids	38		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
ortho-Phosphate	0.0074	I	0.010	0.0014	mg/L	1		SM 4500 P E	Total/NA
Chemical Oxygen Demand	61		20	10	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	9.8		1.0	0.35	mg/L	1		SM 5310C	Total/NA
Nitrogen, Total	0.36		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.62				SU	1		Field Sampling	Total/NA
Field Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.8				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	64				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.52				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 640-39703-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		25	2.8	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	77		10	2.6	ug/L	1		8260C	Total/NA
Carbon disulfide	1.1		1.0	0.23	ug/L	1		8260C	Total/NA
Toluene	20		1.0	0.14	ug/L	1		8260C	Total/NA
Arsenic	2.8		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	48		5.0	1.3	ug/L	1		6020	Total Recoverable

Client Sample ID: SW-3 (Continued)

Lab Sample ID: 640-39703-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.6	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	760		100	33	ug/L	1		6020	Total Recoverable
Lead	1.8		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	5.2		5.0	2.0	ug/L	1		6020	Total Recoverable
Vanadium	4.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	10	I	20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	170		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.023	I	0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.23	I	0.50	0.12	mg/L	1		365.4	Total/NA
Nitrate as N	0.023		0.010	0.0047	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	280		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		1.0	1.0	mg/L	1		SM 2540D	Total/NA
ortho-Phosphate	0.030		0.010	0.0014	mg/L	1		SM 4500 P E	Total/NA
Chemical Oxygen Demand	190		20	10	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	48		4.0	1.4	mg/L	4		SM 5310C	Total/NA
Nitrogen, Total	6.2		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.050		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA
Field Temperature	28.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.6				mg/L	1		Field Sampling	Total/NA
Sheen	No				NONE	1		Field Sampling	Total/NA
Specific Conductance	457				umhos/cm	1		Field Sampling	Total/NA
Turbidity	26.49				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 39703

Lab Sample ID: 640-39703-4

No Detections

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-29(S)c
Date Collected: 07/23/12 17:12
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 02:12	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 02:12	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:12	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 02:12	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 02:12	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 02:12	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 02:12	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 02:12	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:12	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:12	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 02:12	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 02:12	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 02:12	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 02:12	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 02:12	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:12	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 02:12	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:12	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 02:12	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 02:12	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 02:12	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:12	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 02:12	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 02:12	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 02:12	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 02:12	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 02:12	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 02:12	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 02:12	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 02:12	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 02:12	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 02:12	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 02:12	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 02:12	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 02:12	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 02:12	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 02:12	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 02:12	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:12	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 02:12	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:12	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 02:12	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:12	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 02:12	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 02:12	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 02:12	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*87 - 114*		*07/27/12 02:12*	*1*
Dibromofluoromethane	*104*		*81 - 113*		*07/27/12 02:12*	*1*

Client Sample ID: MWB-29(S)c
Date Collected: 07/23/12 17:12
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/27/12 02:12*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 21:57	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*107*		*56 - 144*	*08/06/12 12:42*	*08/07/12 21:57*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 07:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 07:18	1
Barium	**15**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 07:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 07:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 07:18	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 07:18	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 07:18	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 07:18	1
Iron	**330**		100	33	ug/L		08/01/12 10:40	08/03/12 07:18	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 07:18	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 07:18	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 07:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 07:18	1
Sodium	**4.3**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 07:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 07:18	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 07:18	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 07:18	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		07/31/12 18:44	08/02/12 13:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.4**		5.0	1.0	mg/L			08/06/12 16:34	5
Ammonia	**0.086**		0.050	0.026	mg/L			08/03/12 15:14	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:22	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**10**		5.0	5.0	mg/L			07/27/12 09:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 17:11	1
Field pH	**4.3**				SU			07/23/12 17:11	1
Field Temperature	**24.2**				Degrees C			07/23/12 17:11	1
Oxygen, Dissolved	**0.3**				mg/L			07/23/12 17:11	1
Sheen	**No**				NONE			07/23/12 17:11	1
Specific Conductance	**41**				umhos/cm			07/23/12 17:11	1
Turbidity	**3.67**				NTU			07/23/12 17:11	1
Ground Water Elevation	**130.52**				ft			07/23/12 17:11	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-29(I)c
Date Collected: 07/23/12 16:38
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 02:33	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 02:33	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:33	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 02:33	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 02:33	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 02:33	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 02:33	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 02:33	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:33	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:33	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 02:33	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 02:33	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 02:33	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 02:33	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 02:33	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:33	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 02:33	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:33	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 02:33	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 02:33	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 02:33	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:33	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 02:33	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 02:33	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 02:33	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 02:33	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 02:33	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 02:33	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 02:33	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 02:33	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 02:33	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 02:33	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 02:33	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 02:33	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 02:33	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 02:33	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 02:33	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 02:33	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:33	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 02:33	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:33	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 02:33	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:33	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 02:33	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 02:33	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 02:33	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*87 - 114*		*07/27/12 02:33*	*1*
Dibromofluoromethane	*106*		*81 - 113*		*07/27/12 02:33*	*1*

Client Sample ID: MWB-29(I)c
Date Collected: 07/23/12 16:38
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*87 - 112*		*07/27/12 02:33*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 22:12	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*108*		*56 - 144*	*08/06/12 12:42*	*08/07/12 22:12*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 07:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 07:48	1
Barium	**39**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 07:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 07:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 07:48	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 07:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 07:48	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 07:48	1
Iron	**390**		100	33	ug/L		08/01/12 10:40	08/03/12 07:48	1
Lead	**0.87**	**I**	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 07:48	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 07:48	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 07:48	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 07:48	1
Sodium	**3.3**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 07:48	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 07:48	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 07:48	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 07:48	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		07/31/12 18:44	08/02/12 13:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		5.0	1.0	mg/L			08/06/12 17:12	5
Ammonia	**0.093**		0.050	0.026	mg/L			08/03/12 14:32	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:26	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**30**		5.0	5.0	mg/L			07/27/12 09:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 16:37	1
Field pH	**5.02**				SU			07/23/12 16:37	1
Field Temperature	**21.8**				Degrees C			07/23/12 16:37	1
Oxygen, Dissolved	**0.5**				mg/L			07/23/12 16:37	1
Sheen	**No**				NONE			07/23/12 16:37	1
Specific Conductance	**35**				umhos/cm			07/23/12 16:37	1
Turbidity	**14.66**				NTU			07/23/12 16:37	1
Ground Water Elevation	**134.42**				ft			07/23/12 16:37	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-29(D)c
Date Collected: 07/23/12 15:59
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 02:54	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 02:54	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:54	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 02:54	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 02:54	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 02:54	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 02:54	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 02:54	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 02:54	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:54	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 02:54	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 02:54	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 02:54	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 02:54	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 02:54	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:54	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 02:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:54	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 02:54	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 02:54	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 02:54	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:54	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 02:54	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 02:54	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 02:54	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 02:54	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 02:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 02:54	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 02:54	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 02:54	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 02:54	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 02:54	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 02:54	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 02:54	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 02:54	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 02:54	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 02:54	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 02:54	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 02:54	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 02:54	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 02:54	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 02:54	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 02:54	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 02:54	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 02:54	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 02:54	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*87 - 114*		*07/27/12 02:54*	*1*
Dibromofluoromethane	*105*		*81 - 113*		*07/27/12 02:54*	*1*

Client Sample ID: MWB-29(D)c
Date Collected: 07/23/12 15:59
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/27/12 02:54*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 22:26	1
EDB	0.0060	U	0.019	0.0060	ug/L		08/06/12 12:42	08/07/12 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*	*08/06/12 12:42*	*08/07/12 22:26*	*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		08/01/12 10:40	08/03/12 07:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 07:54	1
Barium	**56**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 07:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 07:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 07:54	1
Chromium	**3.0**	**I**	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 07:54	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 07:54	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 07:54	1
Iron	**730**		100	33	ug/L		08/01/12 10:40	08/03/12 07:54	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 07:54	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 07:54	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 07:54	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 07:54	1
Sodium	**3.8**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 07:54	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 07:54	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 07:54	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 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		07/31/12 18:44	08/02/12 13:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.7**		5.0	1.0	mg/L			08/06/12 17:24	5
Ammonia	**0.098**		0.050	0.026	mg/L			08/03/12 14:32	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:27	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**36**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 15:58	1
Field pH	**5.53**				SU			07/23/12 15:58	1
Field Temperature	**22.0**				Degrees C			07/23/12 15:58	1
Oxygen, Dissolved	**0.1**				mg/L			07/23/12 15:58	1
Sheen	**No**				NONE			07/23/12 15:58	1
Specific Conductance	**69**				umhos/cm			07/23/12 15:58	1
Turbidity	**2.24**				NTU			07/23/12 15:58	1
Ground Water Elevation	**134.37**				ft			07/23/12 15:58	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-31(D)b
Date Collected: 07/23/12 15:17
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 03:15	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 03:15	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:15	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 03:15	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 03:15	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 03:15	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 03:15	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 03:15	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:15	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:15	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 03:15	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 03:15	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 03:15	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 03:15	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 03:15	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:15	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 03:15	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:15	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 03:15	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 03:15	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 03:15	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:15	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 03:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 03:15	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 03:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 03:15	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 03:15	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 03:15	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 03:15	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 03:15	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 03:15	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 03:15	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 03:15	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 03:15	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 03:15	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 03:15	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 03:15	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 03:15	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:15	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 03:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 03:15	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:15	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 03:15	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 03:15	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 03:15	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*87 - 114*		*07/27/12 03:15*	*1*
Dibromofluoromethane	*103*		*81 - 113*		*07/27/12 03:15*	*1*

Client Sample ID: MWB-31(D)b
Date Collected: 07/23/12 15:17
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/27/12 03:15*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 22:41	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*100*		*56 - 144*	*08/06/12 12:42*	*08/07/12 22:41*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:00	1
Barium	**93**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:00	1
Chromium	**3.1**	**I**	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:00	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:00	1
Iron	**750**		100	33	ug/L		08/01/12 10:40	08/03/12 08:00	1
Lead	**0.23**	**I**	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:00	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:00	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:00	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:00	1
Sodium	**6.2**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:00	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:00	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:00	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:00	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		07/31/12 18:44	08/02/12 13:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		5.0	1.0	mg/L			08/07/12 18:18	5
Ammonia	**0.18**		0.050	0.026	mg/L			08/03/12 14:32	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:28	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**200**		10	10	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 15:16	1
Field pH	**7.32**				SU			07/23/12 15:16	1
Field Temperature	**21.0**				Degrees C			07/23/12 15:16	1
Oxygen, Dissolved	**0.0**				mg/L			07/23/12 15:16	1
Sheen	**No**				NONE			07/23/12 15:16	1
Specific Conductance	**368**				umhos/cm			07/23/12 15:16	1
Turbidity	**1.87**				NTU			07/23/12 15:16	1
Ground Water Elevation	**139.48**				ft			07/23/12 15:16	1

Client Sample ID: MWB-2(S)b
Date Collected: 07/23/12 14:26
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.9	I	25	2.8	ug/L			07/27/12 03:35	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 03:35	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:35	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 03:35	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 03:35	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 03:35	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 03:35	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 03:35	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:35	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:35	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 03:35	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 03:35	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 03:35	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 03:35	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 03:35	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:35	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 03:35	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:35	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 03:35	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 03:35	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 03:35	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:35	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 03:35	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 03:35	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 03:35	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 03:35	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 03:35	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 03:35	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 03:35	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 03:35	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 03:35	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 03:35	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 03:35	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 03:35	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 03:35	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 03:35	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 03:35	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 03:35	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:35	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 03:35	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:35	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 03:35	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:35	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 03:35	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 03:35	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 03:35	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*87 - 114*		*07/27/12 03:35*	*1*
Dibromofluoromethane	*103*		*81 - 113*		*07/27/12 03:35*	*1*

Client Sample ID: MWB-2(S)b
Date Collected: 07/23/12 14:26
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-5
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*87 - 112*		*07/27/12 03:35*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 22:55	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*100*		*56 - 144*	*08/06/12 12:42*	*08/07/12 22:55*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:18	1
Barium	**7.6**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:18	1
Chromium	**2.6**	**I**	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:18	1
Cobalt	**0.19**	**I**	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:18	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:18	1
Iron	**460**		100	33	ug/L		08/01/12 10:40	08/03/12 08:18	1
Lead	**1.2**	**I**	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:18	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:18	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:18	1
Sodium	**2.0**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:18	1
Vanadium	**5.2**	**I**	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:18	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:18	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		07/31/12 18:44	08/02/12 13:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.9**	**I**	5.0	1.0	mg/L			08/06/12 17:51	5
Ammonia	**0.074**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	**0.13**		0.050	0.010	mg/L			08/07/12 12:29	1
Nitrate as N	**0.12**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**52**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**4.66**				SU			07/23/12 14:25	1
Field Temperature	**25.4**				Degrees C			07/23/12 14:25	1
Oxygen, Dissolved	**1.0**				mg/L			07/23/12 14:25	1
Sheen	**No**				NONE			07/23/12 14:25	1
Specific Conductance	**25**				umhos/cm			07/23/12 14:25	1
Turbidity	**18.67**				NTU			07/23/12 14:25	1
Ground Water Elevation	**140.21**				ft			07/23/12 14:25	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-2(I)b
Date Collected: 07/23/12 13:53
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 03:56	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 03:56	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:56	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 03:56	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 03:56	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 03:56	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 03:56	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 03:56	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 03:56	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:56	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 03:56	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 03:56	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 03:56	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 03:56	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 03:56	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:56	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 03:56	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:56	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 03:56	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 03:56	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 03:56	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:56	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 03:56	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 03:56	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 03:56	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 03:56	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 03:56	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 03:56	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 03:56	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 03:56	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 03:56	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 03:56	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 03:56	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 03:56	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 03:56	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 03:56	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 03:56	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 03:56	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 03:56	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 03:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 03:56	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 03:56	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 03:56	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 03:56	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 03:56	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 03:56	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*87 - 114*		*07/27/12 03:56*	*1*
Dibromofluoromethane	*105*		*81 - 113*		*07/27/12 03:56*	*1*

Client Sample ID: MWB-2(I)b
Date Collected: 07/23/12 13:53
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/27/12 03:56*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 23:10	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*105*		*56 - 144*	*08/06/12 12:42*	*08/07/12 23:10*	*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		08/01/12 10:40	08/03/12 08:24	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:24	1
Barium	**21**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:24	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:24	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:24	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:24	1
Cobalt	**0.20**	**I**	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:24	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:24	1
Iron	**340**		100	33	ug/L		08/01/12 10:40	08/03/12 08:24	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:24	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:24	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:24	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:24	1
Sodium	**4.4**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:24	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:24	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:24	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:24	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		07/31/12 18:44	08/02/12 13:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.8**		5.0	1.0	mg/L			08/06/12 18:03	5
Ammonia	**0.18**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:30	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**16**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 13:52	1
Field pH	**4.71**				SU			07/23/12 13:52	1
Field Temperature	**21.0**				Degrees C			07/23/12 13:52	1
Oxygen, Dissolved	**0.4**				mg/L			07/23/12 13:52	1
Sheen	**No**				NONE			07/23/12 13:52	1
Specific Conductance	**39**				umhos/cm			07/23/12 13:52	1
Turbidity	**2.03**				NTU			07/23/12 13:52	1
Ground Water Elevation	**137.95**				ft			07/23/12 13:52	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-13(S)c
Date Collected: 07/23/12 13:16
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 04:17	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 04:17	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:17	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 04:17	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 04:17	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 04:17	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 04:17	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 04:17	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:17	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:17	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 04:17	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 04:17	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 04:17	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 04:17	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 04:17	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:17	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 04:17	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:17	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 04:17	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 04:17	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 04:17	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:17	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 04:17	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 04:17	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 04:17	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 04:17	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 04:17	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 04:17	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 04:17	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 04:17	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 04:17	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 04:17	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 04:17	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 04:17	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 04:17	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 04:17	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 04:17	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 04:17	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:17	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 04:17	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:17	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 04:17	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:17	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 04:17	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 04:17	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 04:17	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*87 - 114*		*07/27/12 04:17*	*1*
Dibromofluoromethane	*105*		*81 - 113*		*07/27/12 04:17*	*1*

Client Sample ID: MWB-13(S)c
Date Collected: 07/23/12 13:16
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/27/12 04:17*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 23:24	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*101*		*56 - 144*	*08/06/12 12:42*	*08/07/12 23:24*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:30	1
Arsenic	**1.3**	**I**	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:30	1
Barium	**26**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:30	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:30	1
Chromium	**13**		5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:30	1
Cobalt	**0.26**	**I**	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:30	1
Copper	**5.2**		5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:30	1
Iron	**2000**		100	33	ug/L		08/01/12 10:40	08/03/12 08:30	1
Lead	**3.8**		1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:30	1
Nickel	**4.7**	**I**	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:30	1
Selenium	**21**		2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:30	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:30	1
Sodium	**45**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:30	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:30	1
Vanadium	**58**		10	3.8	ug/L		08/01/12 10:40	08/03/12 08:30	1
Zinc	**10**	**I**	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:30	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		07/31/12 18:44	08/02/12 13:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53**		5.0	1.0	mg/L			08/06/12 18:16	5
Ammonia	**0.073**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	**0.26**		0.050	0.010	mg/L			08/07/12 12:34	1
Nitrate as N	**0.26**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**260**		10	10	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown**				PCU			07/23/12 13:15	1
Field pH	**5.81**				SU			07/23/12 13:15	1
Field Temperature	**25.8**				Degrees C			07/23/12 13:15	1
Oxygen, Dissolved	**0.7**				mg/L			07/23/12 13:15	1
Sheen	**No**				NONE			07/23/12 13:15	1
Specific Conductance	**422**				umhos/cm			07/23/12 13:15	1
Turbidity	**48.45**				NTU			07/23/12 13:15	1
Ground Water Elevation	**113.7**				ft			07/23/12 13:15	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-13(I)c
Date Collected: 07/23/12 12:44
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 04:38	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 04:38	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:38	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 04:38	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 04:38	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 04:38	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 04:38	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 04:38	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:38	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:38	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 04:38	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 04:38	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 04:38	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 04:38	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 04:38	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:38	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 04:38	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:38	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 04:38	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 04:38	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 04:38	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:38	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 04:38	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 04:38	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 04:38	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 04:38	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 04:38	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 04:38	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 04:38	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 04:38	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 04:38	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 04:38	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 04:38	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 04:38	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 04:38	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 04:38	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 04:38	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 04:38	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:38	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 04:38	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:38	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 04:38	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:38	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 04:38	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 04:38	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 04:38	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*87 - 114*		*07/27/12 04:38*	*1*
Dibromofluoromethane	*103*		*81 - 113*		*07/27/12 04:38*	*1*

Client Sample ID: MWB-13(I)c
Date Collected: 07/23/12 12:44
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*87 - 112*		*07/27/12 04:38*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 23:39	1
EDB	0.0060	U	0.019	0.0060	ug/L		08/06/12 12:42	08/07/12 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*106*		*56 - 144*	*08/06/12 12:42*	*08/07/12 23:39*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:36	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:36	1
Barium	**33**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:36	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:36	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:36	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:36	1
Iron	**360**		100	33	ug/L		08/01/12 10:40	08/03/12 08:36	1
Lead	**0.57**	**I**	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:36	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:36	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:36	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:36	1
Sodium	**3.3**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:36	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:36	1
Vanadium	**4.1**	**I**	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:36	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:36	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		07/31/12 18:44	08/02/12 13:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**	**I**	5.0	1.0	mg/L			08/06/12 18:28	5
Ammonia	**0.084**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:35	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**36**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 12:43	1
Field pH	**5.14**				SU			07/23/12 12:43	1
Field Temperature	**24.2**				Degrees C			07/23/12 12:43	1
Oxygen, Dissolved	**0.3**				mg/L			07/23/12 12:43	1
Sheen	**No**				NONE			07/23/12 12:43	1
Specific Conductance	**34**				umhos/cm			07/23/12 12:43	1
Turbidity	**4.23**				NTU			07/23/12 12:43	1
Ground Water Elevation	**109.11**				ft			07/23/12 12:43	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-22(S)c
Date Collected: 07/23/12 12:09
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 04:59	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 04:59	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:59	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 04:59	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 04:59	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 04:59	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 04:59	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 04:59	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 04:59	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:59	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 04:59	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 04:59	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 04:59	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 04:59	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 04:59	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:59	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 04:59	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:59	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 04:59	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 04:59	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 04:59	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:59	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 04:59	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 04:59	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 04:59	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 04:59	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 04:59	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 04:59	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 04:59	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 04:59	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 04:59	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 04:59	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 04:59	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 04:59	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 04:59	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 04:59	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 04:59	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 04:59	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 04:59	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 04:59	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 04:59	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 04:59	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 04:59	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 04:59	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 04:59	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 04:59	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*87 - 114*		*07/27/12 04:59*	*1*
Dibromofluoromethane	*105*		*81 - 113*		*07/27/12 04:59*	*1*

Client Sample ID: MWB-22(S)c
Date Collected: 07/23/12 12:09
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/27/12 04:59*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 23:53	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*117*		*56 - 144*	*08/06/12 12:42*	*08/07/12 23:53*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:42	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:42	1
Barium	**3.8**	**I**	5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:42	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:42	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:42	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:42	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:42	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:42	1
Iron	**97**	**I**	100	33	ug/L		08/01/12 10:40	08/03/12 08:42	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:42	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:42	1
Selenium	**1.3**	**I**	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:42	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:42	1
Sodium	**15**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:42	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:42	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:42	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:42	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		07/31/12 18:44	08/02/12 13:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		5.0	1.0	mg/L			08/06/12 19:18	5
Ammonia	**0.090**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:36	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**170**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Yellow Tint**				PCU			07/23/12 12:08	1
Field pH	**5.98**				SU			07/23/12 12:08	1
Field Temperature	**24.2**				Degrees C			07/23/12 12:08	1
Oxygen, Dissolved	**0.3**				mg/L			07/23/12 12:08	1
Sheen	**No**				NONE			07/23/12 12:08	1
Specific Conductance	**274**				umhos/cm			07/23/12 12:08	1
Turbidity	**5.18**				NTU			07/23/12 12:08	1
Ground Water Elevation	**115.67**				ft			07/23/12 12:08	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-12(S)c
Date Collected: 07/23/12 11:37
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 05:20	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 05:20	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 05:20	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 05:20	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 05:20	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 05:20	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 05:20	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 05:20	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 05:20	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 05:20	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 05:20	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 05:20	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 05:20	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 05:20	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 05:20	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 05:20	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 05:20	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:20	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 05:20	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 05:20	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 05:20	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:20	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 05:20	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 05:20	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 05:20	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 05:20	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 05:20	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 05:20	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 05:20	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 05:20	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 05:20	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 05:20	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 05:20	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 05:20	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 05:20	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 05:20	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 05:20	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 05:20	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 05:20	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 05:20	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:20	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 05:20	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 05:20	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 05:20	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 05:20	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 05:20	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*87 - 114*		*07/27/12 05:20*	*1*
Dibromofluoromethane	*106*		*81 - 113*		*07/27/12 05:20*	*1*

Client Sample ID: MWB-12(S)c
Date Collected: 07/23/12 11:37
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-10
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/27/12 05:20*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/08/12 00:08	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/08/12 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*99*		*56 - 144*	*08/06/12 12:42*	*08/08/12 00:08*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:48	1
Barium	**6.0**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:48	1
Chromium	**2.8**	**I**	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:48	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:48	1
Iron	**65**	**I**	100	33	ug/L		08/01/12 10:40	08/03/12 08:48	1
Lead	**0.47**	**I**	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:48	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:48	1
Selenium	**6.9**		2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:48	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:48	1
Sodium	**4.7**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:48	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:48	1
Vanadium	**65**		10	3.8	ug/L		08/01/12 10:40	08/03/12 08:48	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:48	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		07/31/12 18:44	08/02/12 13:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.5**		5.0	1.0	mg/L			08/06/12 19:43	5
Ammonia	**0.091**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	**0.075**		0.050	0.010	mg/L			08/07/12 12:38	1
Nitrate as N	**0.075**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**120**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			07/23/12 11:36	1
Field pH	**5.54**				SU			07/23/12 11:36	1
Field Temperature	**24.8**				Degrees C			07/23/12 11:36	1
Oxygen, Dissolved	**0.7**				mg/L			07/23/12 11:36	1
Sheen	**No**				NONE			07/23/12 11:36	1
Specific Conductance	**164**				umhos/cm			07/23/12 11:36	1
Turbidity	**23.24**				NTU			07/23/12 11:36	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-12(S)c
Date Collected: 07/23/12 11:37
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	114.9				ft			07/23/12 11:36	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-12(1)c
Date Collected: 07/23/12 11:06
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 05:41	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 05:41	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 05:41	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 05:41	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 05:41	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 05:41	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 05:41	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 05:41	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 05:41	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 05:41	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 05:41	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 05:41	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 05:41	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 05:41	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 05:41	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 05:41	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 05:41	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:41	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 05:41	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 05:41	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 05:41	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:41	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 05:41	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 05:41	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 05:41	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 05:41	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 05:41	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 05:41	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 05:41	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 05:41	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 05:41	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 05:41	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 05:41	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 05:41	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 05:41	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 05:41	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 05:41	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 05:41	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 05:41	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 05:41	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 05:41	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 05:41	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 05:41	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 05:41	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 05:41	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 05:41	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*87 - 114*		*07/27/12 05:41*	*1*
Dibromofluoromethane	*104*		*81 - 113*		*07/27/12 05:41*	*1*

Client Sample ID: MWB-12(1)c
Date Collected: 07/23/12 11:06
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-11
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/27/12 05:41*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/08/12 00:22	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/08/12 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:42*	*08/08/12 00:22*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 08:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 08:54	1
Barium	**51**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 08:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 08:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 08:54	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 08:54	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 08:54	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 08:54	1
Iron	**370**		100	33	ug/L		08/01/12 10:40	08/03/12 08:54	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 08:54	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 08:54	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 08:54	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 08:54	1
Sodium	**3.1**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 08:54	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 08:54	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 08:54	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 08:54	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		07/31/12 18:44	08/02/12 13:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**	**I**	5.0	1.0	mg/L			08/06/12 19:55	5
Ammonia	**0.068**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:39	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**24**		5.0	5.0	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 11:05	1
Field pH	**5.15**				SU			07/23/12 11:05	1
Field Temperature	**24.7**				Degrees C			07/23/12 11:05	1
Oxygen, Dissolved	**0.3**				mg/L			07/23/12 11:05	1
Sheen	**No**				NONE			07/23/12 11:05	1
Specific Conductance	**39**				umhos/cm			07/23/12 11:05	1
Turbidity	**3.16**				NTU			07/23/12 11:05	1
Ground Water Elevation	**117.76**				ft			07/23/12 11:05	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-12(D)c
Date Collected: 07/23/12 10:34
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 06:02	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 06:02	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 06:02	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 06:02	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 06:02	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 06:02	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 06:02	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 06:02	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 06:02	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 06:02	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 06:02	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 06:02	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 06:02	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 06:02	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 06:02	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 06:02	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 06:02	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 06:02	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 06:02	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 06:02	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 06:02	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 06:02	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 06:02	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 06:02	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 06:02	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 06:02	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 06:02	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 06:02	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 06:02	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 06:02	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 06:02	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 06:02	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 06:02	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 06:02	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 06:02	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 06:02	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 06:02	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 06:02	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 06:02	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 06:02	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 06:02	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 06:02	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 06:02	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 06:02	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 06:02	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 06:02	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*87 - 114*		*07/27/12 06:02*	*1*
Dibromofluoromethane	*104*		*81 - 113*		*07/27/12 06:02*	*1*

Client Sample ID: MWB-12(D)c
Date Collected: 07/23/12 10:34
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*87 - 112*		*07/27/12 06:02*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/08/12 00:37	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/08/12 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*95*		*56 - 144*	*08/06/12 12:42*	*08/08/12 00:37*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 09:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 09:00	1
Barium	**120**		5.0	1.3	ug/L		08/01/12 10:40	08/03/12 09:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 09:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 09:00	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 09:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 09:00	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 09:00	1
Iron	**920**		100	33	ug/L		08/01/12 10:40	08/03/12 09:00	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 09:00	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 09:00	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 09:00	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 09:00	1
Sodium	**5.7**		0.50	0.25	mg/L		08/01/12 10:40	08/03/12 09:00	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 09:00	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 09:00	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 09:00	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		07/31/12 18:44	08/02/12 13:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.0**	**I**	5.0	1.0	mg/L			08/06/12 20:07	5
Ammonia	**0.17**		0.050	0.026	mg/L			08/03/12 14:41	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:41	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**190**		10	10	mg/L			07/27/12 14:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/23/12 10:33	1
Field pH	**7.04**				SU			07/23/12 10:33	1
Field Temperature	**23.6**				Degrees C			07/23/12 10:33	1
Oxygen, Dissolved	**0.1**				mg/L			07/23/12 10:33	1
Sheen	**No**				NONE			07/23/12 10:33	1
Specific Conductance	**388**				umhos/cm			07/23/12 10:33	1
Turbidity	**3.53**				NTU			07/23/12 10:33	1
Ground Water Elevation	**119.98**				ft			07/23/12 10:33	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 01 39625
Date Collected: 07/23/12 00:00
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 01:51	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 01:51	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 01:51	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 01:51	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 01:51	1
2-Butanone (MEK)	**4.1**	**I**	10	2.6	ug/L			07/27/12 01:51	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 01:51	1
Carbon tetrachloride	0.18	U J	1.0	0.18	ug/L			07/27/12 01:51	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 01:51	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 01:51	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 01:51	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 01:51	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 01:51	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 01:51	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 01:51	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 01:51	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 01:51	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:51	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 01:51	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 01:51	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 01:51	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:51	1
1,2-Dichloroethane	0.15	U J	1.0	0.15	ug/L			07/27/12 01:51	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 01:51	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 01:51	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 01:51	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 01:51	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 01:51	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 01:51	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 01:51	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 01:51	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 01:51	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 01:51	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 01:51	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 01:51	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 01:51	1
trans-1,4-Dichloro-2-butene	0.43	U J	2.0	0.43	ug/L			07/27/12 01:51	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 01:51	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 01:51	1
1,1,1-Trichloroethane	0.16	U J	1.0	0.16	ug/L			07/27/12 01:51	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:51	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 01:51	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 01:51	1
1,2,3-Trichloropropane	0.23	U J	1.0	0.23	ug/L			07/27/12 01:51	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 01:51	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 01:51	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*87 - 114*		*07/27/12 01:51*	*1*
Dibromofluoromethane	*106*		*81 - 113*		*07/27/12 01:51*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 01 39625
Date Collected: 07/23/12 00:00
Date Received: 07/25/12 07:30

Lab Sample ID: 640-39625-13
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/27/12 01:51*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Field Blank 01 39647
Date Collected: 07/24/12 18:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 09:30	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 09:30	1
Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:42	08/03/12 09:30	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 09:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 09:30	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 09:30	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 09:30	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 09:30	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 09:30	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 09:30	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 09:30	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 09:30	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 09:30	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 09:30	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 09:30	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		07/31/12 17:55	08/01/12 18:12	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/06/12 20:20	5
Ammonia	0.026	U	0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:42	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/31/12 15:42	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-11(1)(R)c
Date Collected: 07/24/12 17:41
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 17:32	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 17:32	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 17:32	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 17:32	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 17:32	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 17:32	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 17:32	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 17:32	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 17:32	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 17:32	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 17:32	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 17:32	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 17:32	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 17:32	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 17:32	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 17:32	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 17:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:32	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 17:32	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 17:32	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 17:32	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:32	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 17:32	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 17:32	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 17:32	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 17:32	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 17:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 17:32	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 17:32	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 17:32	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 17:32	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 17:32	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 17:32	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 17:32	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 17:32	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 17:32	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 17:32	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 17:32	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 17:32	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 17:32	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:32	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 17:32	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 17:32	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 17:32	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 17:32	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 17:32	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*87 - 114*		*07/27/12 17:32*	*1*
Dibromofluoromethane	*102*		*81 - 113*		*07/27/12 17:32*	*1*

Client Sample ID: MWB-11(1)(R)c
Date Collected: 07/24/12 17:41
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*87 - 112*		*07/27/12 17:32*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 02:19	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:28	08/08/12 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*110*		*56 - 144*	*08/06/12 12:28*	*08/08/12 02:19*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:00	1
Barium	**46**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:00	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:00	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:00	1
Iron	**540**		100	33	ug/L		08/01/12 10:42	08/03/12 10:00	1
Lead	**0.58**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:00	1
Nickel	**2.6**	**I**	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:00	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:00	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:00	1
Sodium	**3.0**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:00	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:00	1
Vanadium	**11**		10	3.8	ug/L		08/01/12 10:42	08/03/12 10:00	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:00	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		07/31/12 17:55	08/01/12 18:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.9**	**I**	5.0	1.0	mg/L			08/06/12 20:32	5
Ammonia	**0.060**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:44	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**30**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 17:40	1
Field pH	**4.74**				SU			07/24/12 17:40	1
Field Temperature	**23.7**				Degrees C			07/24/12 17:40	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 17:40	1
Sheen	**No**				NONE			07/24/12 17:40	1
Specific Conductance	**34**				umhos/cm			07/24/12 17:40	1
Turbidity	**9.81**				NTU			07/24/12 17:40	1
Ground Water Elevation	**109.65**				ft			07/24/12 17:40	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-11(S)c
Date Collected: 07/24/12 17:08
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 17:53	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 17:53	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 17:53	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 17:53	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 17:53	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 17:53	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 17:53	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 17:53	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 17:53	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 17:53	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 17:53	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 17:53	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 17:53	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 17:53	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 17:53	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 17:53	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 17:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:53	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 17:53	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 17:53	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 17:53	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:53	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 17:53	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 17:53	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 17:53	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 17:53	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 17:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 17:53	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 17:53	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 17:53	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 17:53	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 17:53	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 17:53	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 17:53	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 17:53	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 17:53	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 17:53	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 17:53	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 17:53	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 17:53	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 17:53	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 17:53	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 17:53	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 17:53	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 17:53	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 17:53	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*87 - 114*		*07/27/12 17:53*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*07/27/12 17:53*	*1*

Client Sample ID: MWB-11(S)c
Date Collected: 07/24/12 17:08
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/27/12 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	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 02:33	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:28	08/08/12 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*08/06/12 12:28*	*08/08/12 02:33*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:06	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:06	1
Barium	**86**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:06	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:06	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:06	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:06	1
Cobalt	**0.50**		0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:06	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:06	1
Iron	**230**		100	33	ug/L		08/01/12 10:42	08/03/12 10:06	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:06	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:06	1
Selenium	**1.2**	**I**	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:06	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:06	1
Sodium	**17**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:06	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:06	1
Vanadium	**4.8**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:06	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:06	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		07/31/12 17:55	08/01/12 18:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33**		5.0	1.0	mg/L			08/06/12 20:45	5
Ammonia	**0.13**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	**0.042**	**I**	0.050	0.010	mg/L			08/07/12 12:45	1
Nitrate as N	**0.042**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**130**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 17:07	1
Field pH	**3.9**				SU			07/24/12 17:07	1
Field Temperature	**22.8**				Degrees C			07/24/12 17:07	1
Oxygen, Dissolved	**0.1**				mg/L			07/24/12 17:07	1
Sheen	**No**				NONE			07/24/12 17:07	1
Specific Conductance	**247**				umhos/cm			07/24/12 17:07	1
Turbidity	**2.77**				NTU			07/24/12 17:07	1
Ground Water Elevation	**109.94**				ft			07/24/12 17:07	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-20(S)c
Date Collected: 07/24/12 16:34
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 18:14	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 18:14	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:14	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 18:14	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 18:14	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 18:14	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 18:14	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 18:14	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:14	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:14	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:14	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 18:14	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 18:14	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 18:14	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 18:14	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:14	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 18:14	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:14	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 18:14	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 18:14	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 18:14	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:14	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:14	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 18:14	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 18:14	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 18:14	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 18:14	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 18:14	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 18:14	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 18:14	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 18:14	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 18:14	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 18:14	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 18:14	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 18:14	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 18:14	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 18:14	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 18:14	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:14	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 18:14	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:14	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 18:14	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:14	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 18:14	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 18:14	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 18:14	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*87 - 114*		*07/27/12 18:14*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*07/27/12 18:14*	*1*

Client Sample ID: MWB-20(S)c
Date Collected: 07/24/12 16:34
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*87 - 112*		*07/27/12 18:14*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 02:47	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*105*		*56 - 144*	*08/06/12 12:28*	*08/08/12 02:47*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:12	1
Barium	**11**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:12	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:12	1
Cobalt	**0.19**	**I**	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:12	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:12	1
Iron	**240**		100	33	ug/L		08/01/12 10:42	08/03/12 10:12	1
Lead	**0.80**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:12	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:12	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:12	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:12	1
Sodium	**4.9**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:12	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:12	1
Vanadium	**6.1**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:12	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:12	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		07/31/12 17:55	08/01/12 18:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.8**		5.0	1.0	mg/L			08/06/12 20:57	5
Ammonia	**0.16**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:49	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**56**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			07/24/12 16:33	1
Field pH	**4.23**				SU			07/24/12 16:33	1
Field Temperature	**24.8**				Degrees C			07/24/12 16:33	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 16:33	1
Sheen	**No**				NONE			07/24/12 16:33	1
Specific Conductance	**76**				umhos/cm			07/24/12 16:33	1
Turbidity	**19.13**				NTU			07/24/12 16:33	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-20(S)c
Date Collected: 07/24/12 16:34
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	113.81				ft			07/24/12 16:33	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-7(S)c
Date Collected: 07/24/12 16:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 18:35	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 18:35	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:35	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 18:35	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 18:35	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 18:35	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 18:35	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 18:35	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:35	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:35	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:35	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 18:35	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 18:35	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 18:35	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 18:35	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:35	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 18:35	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:35	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 18:35	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 18:35	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 18:35	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:35	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:35	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 18:35	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 18:35	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 18:35	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 18:35	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 18:35	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 18:35	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 18:35	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 18:35	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 18:35	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 18:35	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 18:35	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 18:35	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 18:35	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 18:35	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 18:35	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:35	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 18:35	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:35	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 18:35	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:35	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 18:35	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 18:35	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 18:35	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*87 - 114*		*07/27/12 18:35*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*07/27/12 18:35*	*1*

Client Sample ID: MWB-7(S)c
Date Collected: 07/24/12 16:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*87 - 112*		*07/27/12 18:35*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 03:02	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:28	08/08/12 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*101*		*56 - 144*	*08/06/12 12:28*	*08/08/12 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		08/01/12 10:42	08/03/12 10:30	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:30	1
Barium	**6.5**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:30	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:30	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:30	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:30	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:30	1
Iron	**54**	**I**	100	33	ug/L		08/01/12 10:42	08/03/12 10:30	1
Lead	**0.52**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:30	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:30	1
Selenium	**1.2**	**I**	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:30	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:30	1
Sodium	**13**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:30	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:30	1
Vanadium	**7.8**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:30	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:30	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		07/31/12 17:55	08/01/12 18:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		5.0	1.0	mg/L			08/06/12 21:09	5
Ammonia	**0.20**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	**1.1**		0.050	0.010	mg/L			08/07/12 12:50	1
Nitrate as N	**1.1**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**120**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Yellow Tint**				PCU			07/24/12 15:59	1
Field pH	**5.16**				SU			07/24/12 15:59	1
Field Temperature	**26.2**				Degrees C			07/24/12 15:59	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 15:59	1
Sheen	**No**				NONE			07/24/12 15:59	1
Specific Conductance	**177**				umhos/cm			07/24/12 15:59	1
Turbidity	**15.59**				NTU			07/24/12 15:59	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-7(S)c
Date Collected: 07/24/12 16:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	115.88				ft			07/24/12 15:59	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-7(1)c
Date Collected: 07/24/12 15:29
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 18:56	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 18:56	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:56	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 18:56	1
Bromomethane	0.51	U J	1.0	0.51	ug/L			07/27/12 18:56	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 18:56	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 18:56	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 18:56	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 18:56	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:56	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:56	1
Chloroethane	0.33	U J	1.0	0.33	ug/L			07/27/12 18:56	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 18:56	1
Chloromethane	0.18	U J	1.0	0.18	ug/L			07/27/12 18:56	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 18:56	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:56	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 18:56	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:56	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 18:56	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 18:56	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 18:56	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:56	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 18:56	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 18:56	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 18:56	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 18:56	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 18:56	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 18:56	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 18:56	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 18:56	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 18:56	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 18:56	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 18:56	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 18:56	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 18:56	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 18:56	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 18:56	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 18:56	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 18:56	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 18:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 18:56	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 18:56	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 18:56	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 18:56	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 18:56	1
Vinyl chloride	0.22	U J	1.0	0.22	ug/L			07/27/12 18:56	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*87 - 114*		*07/27/12 18:56*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*07/27/12 18:56*	*1*

Client Sample ID: MWB-7(1)c
Date Collected: 07/24/12 15:29
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*87 - 112*		*07/27/12 18:56*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 03:16	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*96*		*56 - 144*	*08/06/12 12:28*	*08/08/12 03:16*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:36	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:36	1
Barium	**50**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:36	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:36	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:36	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:36	1
Iron	**340**		100	33	ug/L		08/01/12 10:42	08/03/12 10:36	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:36	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:36	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:36	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:36	1
Sodium	**3.3**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:36	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:36	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:36	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:36	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		07/31/12 17:55	08/01/12 18:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.9**	**I**	5.0	1.0	mg/L			08/06/12 22:11	5
Ammonia	**0.056**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:51	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**20**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 15:28	1
Field pH	**5.07**				SU			07/24/12 15:28	1
Field Temperature	**22.4**				Degrees C			07/24/12 15:28	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 15:28	1
Sheen	**No**				NONE			07/24/12 15:28	1
Specific Conductance	**40**				umhos/cm			07/24/12 15:28	1
Turbidity	**3.29**				NTU			07/24/12 15:28	1
Ground Water Elevation	**118.31**				ft			07/24/12 15:28	1

Client Sample ID: MWB-7(D)c
Date Collected: 07/24/12 14:57
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 16:20	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 16:20	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 16:20	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 16:20	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 16:20	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 16:20	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 16:20	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 16:20	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 16:20	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 16:20	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 16:20	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 16:20	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 16:20	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 16:20	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 16:20	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 16:20	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 16:20	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 16:20	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 16:20	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 16:20	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 16:20	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 16:20	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 16:20	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 16:20	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 16:20	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 16:20	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 16:20	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 16:20	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 16:20	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 16:20	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 16:20	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 16:20	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 16:20	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 16:20	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 16:20	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 16:20	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 16:20	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 16:20	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 16:20	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 16:20	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 16:20	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 16:20	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 16:20	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 16:20	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 16:20	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 16:20	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*07/31/12 16:20*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*07/31/12 16:20*	*1*

Client Sample ID: MWB-7(D)c
Date Collected: 07/24/12 14:57
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/31/12 16:20*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 03:31	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*101*		*56 - 144*	*08/06/12 12:28*	*08/08/12 03:31*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:42	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:42	1
Barium	**76**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:42	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:42	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:42	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:42	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:42	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:42	1
Iron	**290**		100	33	ug/L		08/01/12 10:42	08/03/12 10:42	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:42	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:42	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:42	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:42	1
Sodium	**4.6**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:42	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:42	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:42	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:42	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		07/31/12 17:55	08/01/12 18:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.0**	**I**	5.0	1.0	mg/L			08/06/12 22:49	5
Ammonia	**0.15**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:52	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**190**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 14:56	1
Field pH	**7.41**				SU			07/24/12 14:56	1
Field Temperature	**22.2**				Degrees C			07/24/12 14:56	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 14:56	1
Sheen	**No**				NONE			07/24/12 14:56	1
Specific Conductance	**352**				umhos/cm			07/24/12 14:56	1
Turbidity	**2.05**				NTU			07/24/12 14:56	1
Ground Water Elevation	**120.68**				ft			07/24/12 14:56	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(S)c
Date Collected: 07/24/12 14:20
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/30/12 16:01	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/30/12 16:01	1
Benzene	0.13	U	1.0	0.13	ug/L			07/30/12 16:01	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/30/12 16:01	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/30/12 16:01	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/30/12 16:01	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/30/12 16:01	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/30/12 16:01	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/30/12 16:01	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/30/12 16:01	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/30/12 16:01	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/30/12 16:01	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/30/12 16:01	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/30/12 16:01	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/30/12 16:01	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/30/12 16:01	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/30/12 16:01	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/30/12 16:01	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/30/12 16:01	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/30/12 16:01	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/30/12 16:01	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/30/12 16:01	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/30/12 16:01	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/30/12 16:01	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/30/12 16:01	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/30/12 16:01	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/30/12 16:01	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/30/12 16:01	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/30/12 16:01	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/30/12 16:01	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/30/12 16:01	1
Styrene	0.12	U	1.0	0.12	ug/L			07/30/12 16:01	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/30/12 16:01	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/30/12 16:01	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/30/12 16:01	1
Toluene	0.14	U	1.0	0.14	ug/L			07/30/12 16:01	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/30/12 16:01	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/30/12 16:01	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/30/12 16:01	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/30/12 16:01	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/30/12 16:01	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/30/12 16:01	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/30/12 16:01	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/30/12 16:01	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/30/12 16:01	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/30/12 16:01	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/30/12 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*07/30/12 16:01*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*07/30/12 16:01*	*1*

Client Sample ID: MWB-19(S)c
Date Collected: 07/24/12 14:20
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-8
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/30/12 16:01*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 03:45	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:28*	*08/08/12 03:45*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:48	1
Barium	**17**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:48	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:48	1
Cobalt	**0.15**	**I**	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:48	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:48	1
Iron	**460**		100	33	ug/L		08/01/12 10:42	08/03/12 10:48	1
Lead	**0.37**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:48	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:48	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:48	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:48	1
Sodium	**7.4**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:48	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:48	1
Vanadium	**4.6**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:48	1
Zinc	**14**	**I**	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:48	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		07/31/12 17:55	08/01/12 18:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0	1.0	mg/L			08/06/12 23:01	5
Ammonia	**0.13**		0.050	0.026	mg/L			08/06/12 14:45	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:53	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**94**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			07/24/12 14:19	1
Field pH	**5.43**				SU			07/24/12 14:19	1
Field Temperature	**24.3**				Degrees C			07/24/12 14:19	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 14:19	1
Sheen	**No**				NONE			07/24/12 14:19	1
Specific Conductance	**146**				umhos/cm			07/24/12 14:19	1
Turbidity	**13.85**				NTU			07/24/12 14:19	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(S)c
Date Collected: 07/24/12 14:20
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-8
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	120.91				ft			07/24/12 14:19	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(I)c
Date Collected: 07/24/12 13:49
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 16:21	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 16:21	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 16:21	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 16:21	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 16:21	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 16:21	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 16:21	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 16:21	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 16:21	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 16:21	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 16:21	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 16:21	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 16:21	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 16:21	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 16:21	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 16:21	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 16:21	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:21	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 16:21	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 16:21	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 16:21	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:21	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 16:21	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 16:21	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 16:21	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 16:21	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 16:21	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 16:21	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 16:21	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 16:21	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 16:21	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 16:21	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 16:21	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 16:21	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 16:21	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 16:21	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 16:21	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 16:21	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 16:21	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 16:21	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:21	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 16:21	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 16:21	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 16:21	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 16:21	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 16:21	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*07/28/12 16:21*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*07/28/12 16:21*	*1*

Client Sample ID: MWB-19(l)c
Date Collected: 07/24/12 13:49
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/28/12 16:21*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 03:59	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:28	08/08/12 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*107*		*56 - 144*	*08/06/12 12:28*	*08/08/12 03:59*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 10:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 10:54	1
Barium	**69**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 10:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 10:54	1
Cadmium	**0.68**		0.50	0.095	ug/L		08/01/12 10:42	08/03/12 10:54	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 10:54	1
Cobalt	**0.93**		0.50	0.15	ug/L		08/01/12 10:42	08/03/12 10:54	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 10:54	1
Iron	**510**		100	33	ug/L		08/01/12 10:42	08/03/12 10:54	1
Lead	**0.61**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 10:54	1
Nickel	**2.8**	**I**	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 10:54	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 10:54	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 10:54	1
Sodium	**3.4**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 10:54	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 10:54	1
Vanadium	**5.4**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 10:54	1
Zinc	**14**	**I**	20	8.3	ug/L		08/01/12 10:42	08/03/12 10:54	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		07/31/12 17:55	08/01/12 18:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.4**	**I**	5.0	1.0	mg/L			08/06/12 23:13	5
Ammonia	**0.076**		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:57	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**22**		5.0	5.0	mg/L			07/31/12 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Whitish Tint**				PCU			07/24/12 13:48	1
Field pH	**5.06**				SU			07/24/12 13:48	1
Field Temperature	**22.3**				Degrees C			07/24/12 13:48	1
Oxygen, Dissolved	**0.2**				mg/L			07/24/12 13:48	1
Sheen	**No**				NONE			07/24/12 13:48	1
Specific Conductance	**34**				umhos/cm			07/24/12 13:48	1
Turbidity	**15.84**				NTU			07/24/12 13:48	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(I)c
Date Collected: 07/24/12 13:49
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	121.05				ft			07/24/12 13:48	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-17(S)c
Date Collected: 07/24/12 12:28
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 16:43	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 16:43	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 16:43	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 16:43	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 16:43	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 16:43	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 16:43	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 16:43	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 16:43	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 16:43	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 16:43	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 16:43	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 16:43	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 16:43	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 16:43	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 16:43	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 16:43	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:43	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 16:43	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 16:43	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 16:43	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:43	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 16:43	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 16:43	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 16:43	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 16:43	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 16:43	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 16:43	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 16:43	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 16:43	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 16:43	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 16:43	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 16:43	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 16:43	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 16:43	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 16:43	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 16:43	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 16:43	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 16:43	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 16:43	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 16:43	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 16:43	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 16:43	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 16:43	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 16:43	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 16:43	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*87 - 114*		*07/28/12 16:43*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*07/28/12 16:43*	*1*

Client Sample ID: MWB-17(S)c
Date Collected: 07/24/12 12:28
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-10
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*91*		*87 - 112*		*07/28/12 16:43*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 04:14	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:28*	*08/08/12 04:14*	*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		08/01/12 10:42	08/03/12 11:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:00	1
Barium	**4.8**	**I**	5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:00	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:00	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:00	1
Iron	**320**		100	33	ug/L		08/01/12 10:42	08/03/12 11:00	1
Lead	**0.71**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:00	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:00	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:00	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:00	1
Sodium	**4.5**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:00	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:00	1
Vanadium	**5.4**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:00	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:00	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		07/31/12 17:55	08/01/12 19:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.6**		5.0	1.0	mg/L			08/06/12 23:26	5
Ammonia	**0.12**		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:03	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**62**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Lt Brown Tint**				PCU			07/24/12 12:27	1
Field pH	**5.39**				SU			07/24/12 12:27	1
Field Temperature	**25.4**				Degrees C			07/24/12 12:27	1
Oxygen, Dissolved	**0.6**				mg/L			07/24/12 12:27	1
Sheen	**No**				NONE			07/24/12 12:27	1
Specific Conductance	**78**				umhos/cm			07/24/12 12:27	1
Turbidity	**19.82**				NTU			07/24/12 12:27	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-17(S)c
Date Collected: 07/24/12 12:28
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ground Water Elevation	132.2				ft			07/24/12 12:27	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-17(I)c
Date Collected: 07/24/12 11:54
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 17:04	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 17:04	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:04	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 17:04	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 17:04	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 17:04	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 17:04	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 17:04	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:04	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:04	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:04	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 17:04	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 17:04	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 17:04	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 17:04	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:04	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 17:04	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:04	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 17:04	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 17:04	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 17:04	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:04	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:04	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 17:04	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 17:04	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 17:04	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 17:04	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 17:04	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 17:04	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 17:04	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 17:04	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 17:04	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 17:04	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 17:04	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 17:04	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 17:04	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 17:04	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 17:04	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:04	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 17:04	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:04	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 17:04	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:04	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 17:04	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 17:04	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 17:04	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*07/28/12 17:04*	*1*
Dibromofluoromethane	*88*		*81 - 113*		*07/28/12 17:04*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-17(I)c
Date Collected: 07/24/12 11:54
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-11
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/28/12 17:04*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 04:28	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*122*		*56 - 144*	*08/06/12 12:28*	*08/08/12 04:28*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 11:06	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:06	1
Barium	**34**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:06	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:06	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:06	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:06	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:06	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:06	1
Iron	**310**		100	33	ug/L		08/01/12 10:42	08/03/12 11:06	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:06	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:06	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:06	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:06	1
Sodium	**3.1**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:06	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:06	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:06	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:06	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		07/31/12 17:55	08/01/12 19:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.2**	**I**	5.0	1.0	mg/L			08/06/12 23:38	5
Ammonia	**0.041**	**I**	0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:04	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**8.0**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 11:53	1
Field pH	**5.02**				SU			07/24/12 11:53	1
Field Temperature	**22.3**				Degrees C			07/24/12 11:53	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 11:53	1
Sheen	**No**				NONE			07/24/12 11:53	1
Specific Conductance	**29**				umhos/cm			07/24/12 11:53	1
Turbidity	**1.47**				NTU			07/24/12 11:53	1
Ground Water Elevation	**135.87**				ft			07/24/12 11:53	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-17(D)c
Date Collected: 07/24/12 11:20
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 17:25	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 17:25	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:25	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 17:25	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 17:25	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 17:25	1
Carbon disulfide	**0.41**	**I**	1.0	0.23	ug/L			07/28/12 17:25	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 17:25	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:25	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:25	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:25	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 17:25	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 17:25	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 17:25	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 17:25	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:25	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 17:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:25	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 17:25	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 17:25	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 17:25	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:25	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:25	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 17:25	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 17:25	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 17:25	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 17:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 17:25	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 17:25	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 17:25	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 17:25	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 17:25	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 17:25	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 17:25	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 17:25	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 17:25	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 17:25	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 17:25	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:25	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 17:25	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:25	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 17:25	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:25	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 17:25	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 17:25	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 17:25	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*07/28/12 17:25*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*07/28/12 17:25*	*1*

Client Sample ID: MWB-17(D)c
Date Collected: 07/24/12 11:20
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-12
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/28/12 17:25*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 04:42	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:28	08/08/12 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*114*		*56 - 144*	*08/06/12 12:28*	*08/08/12 04:42*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 11:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:12	1
Barium	**32**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:12	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:12	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:12	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:12	1
Iron	**340**		100	33	ug/L		08/01/12 10:42	08/03/12 11:12	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:12	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:12	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:12	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:12	1
Sodium	**3.3**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:12	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:12	1
Vanadium	**4.2**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:12	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:12	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		07/31/12 17:55	08/01/12 19:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.4**		5.0	1.0	mg/L			08/06/12 23:51	5
Ammonia	**0.068**		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	**0.040**	**I**	0.050	0.010	mg/L			08/07/12 13:05	1
Nitrate as N	**0.040**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**34**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 11:19	1
Field pH	**5.45**				SU			07/24/12 11:19	1
Field Temperature	**21.6**				Degrees C			07/24/12 11:19	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 11:19	1
Sheen	**No**				NONE			07/24/12 11:19	1
Specific Conductance	**56**				umhos/cm			07/24/12 11:19	1
Turbidity	**1.14**				NTU			07/24/12 11:19	1
Ground Water Elevation	**131.94**				ft			07/24/12 11:19	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-3(S)b
Date Collected: 07/24/12 10:46
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 18:08	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 18:08	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:08	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 18:08	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 18:08	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 18:08	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 18:08	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 18:08	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:08	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:08	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:08	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 18:08	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 18:08	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 18:08	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 18:08	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:08	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 18:08	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:08	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 18:08	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 18:08	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 18:08	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:08	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:08	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 18:08	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 18:08	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 18:08	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 18:08	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 18:08	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 18:08	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 18:08	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 18:08	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 18:08	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 18:08	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 18:08	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 18:08	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 18:08	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 18:08	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 18:08	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:08	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 18:08	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:08	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 18:08	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:08	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 18:08	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 18:08	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 18:08	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/28/12 18:08*	*1*
Dibromofluoromethane	*93*		*81 - 113*		*07/28/12 18:08*	*1*

Client Sample ID: MWB-3(S)b
Date Collected: 07/24/12 10:46
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-13
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/28/12 18:08*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 04:57	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*97*		*56 - 144*	*08/06/12 12:28*	*08/08/12 04:57*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 11:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:18	1
Barium	**9.5**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:18	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:18	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:18	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:18	1
Iron	**130**		100	33	ug/L		08/01/12 10:42	08/03/12 11:18	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:18	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:18	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:18	1
Sodium	**2.4**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:18	1
Vanadium	**3.9**	**I**	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:18	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:18	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		07/31/12 17:55	08/01/12 19:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.0**	**I**	5.0	1.0	mg/L			08/07/12 00:03	5
Ammonia	**0.035**	**I**	0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:07	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**8.0**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 10:45	1
Field pH	**4.36**				SU			07/24/12 10:45	1
Field Temperature	**22.4**				Degrees C			07/24/12 10:45	1
Oxygen, Dissolved	**0.9**				mg/L			07/24/12 10:45	1
Sheen	**No**				NONE			07/24/12 10:45	1
Specific Conductance	**35**				umhos/cm			07/24/12 10:45	1
Turbidity	**3.03**				NTU			07/24/12 10:45	1
Ground Water Elevation	**147.32**				ft			07/24/12 10:45	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-3(I)b
Date Collected: 07/24/12 10:14
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 18:29	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 18:29	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:29	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 18:29	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 18:29	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 18:29	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 18:29	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 18:29	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:29	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:29	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:29	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 18:29	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 18:29	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 18:29	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 18:29	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:29	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 18:29	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:29	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 18:29	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 18:29	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 18:29	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:29	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:29	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 18:29	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 18:29	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 18:29	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 18:29	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 18:29	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 18:29	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 18:29	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 18:29	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 18:29	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 18:29	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 18:29	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 18:29	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 18:29	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 18:29	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 18:29	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:29	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 18:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:29	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 18:29	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:29	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 18:29	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 18:29	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 18:29	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/28/12 18:29*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*07/28/12 18:29*	*1*

Client Sample ID: MWB-3(I)b
Date Collected: 07/24/12 10:14
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-14
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/28/12 18:29*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 05:11	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*08/06/12 12:28*	*08/08/12 05:11*	*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		08/01/12 10:42	08/03/12 11:24	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:24	1
Barium	**23**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:24	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:24	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:24	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:24	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:24	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:24	1
Iron	**700**		100	33	ug/L		08/01/12 10:42	08/03/12 11:24	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:24	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:24	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:24	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:24	1
Sodium	**3.6**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:24	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:24	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:24	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:24	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		07/31/12 17:55	08/01/12 19:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.8**		5.0	1.0	mg/L			08/07/12 00:40	5
Ammonia	**0.037**	**I**	0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:08	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**10**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 10:13	1
Field pH	**4.45**				SU			07/24/12 10:13	1
Field Temperature	**20.2**				Degrees C			07/24/12 10:13	1
Oxygen, Dissolved	**0.1**				mg/L			07/24/12 10:13	1
Sheen	**No**				NONE			07/24/12 10:13	1
Specific Conductance	**42**				umhos/cm			07/24/12 10:13	1
Turbidity	**1.47**				NTU			07/24/12 10:13	1
Ground Water Elevation	**139.53**				ft			07/24/12 10:13	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-27(I)c
Date Collected: 07/24/12 08:38
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 18:50	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 18:50	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:50	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 18:50	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 18:50	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 18:50	1
Carbon disulfide	**1.1**		1.0	0.23	ug/L			07/28/12 18:50	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 18:50	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 18:50	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:50	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:50	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 18:50	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 18:50	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 18:50	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 18:50	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:50	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 18:50	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:50	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 18:50	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 18:50	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 18:50	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:50	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 18:50	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 18:50	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 18:50	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 18:50	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 18:50	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 18:50	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 18:50	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 18:50	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 18:50	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 18:50	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 18:50	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 18:50	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 18:50	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 18:50	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 18:50	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 18:50	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 18:50	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 18:50	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 18:50	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 18:50	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 18:50	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 18:50	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 18:50	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 18:50	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*87 - 114*		*07/28/12 18:50*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*07/28/12 18:50*	*1*

Client Sample ID: MWB-27(I)c
Date Collected: 07/24/12 08:38
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-15
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/28/12 18:50*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 05:26	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*100*		*56 - 144*	*08/06/12 12:28*	*08/08/12 05:26*	*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		08/01/12 10:42	08/03/12 11:42	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:42	1
Barium	**52**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:42	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:42	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:42	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:42	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:42	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:42	1
Iron	**420**		100	33	ug/L		08/01/12 10:42	08/03/12 11:42	1
Lead	**0.25**	**I**	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:42	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:42	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:42	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:42	1
Sodium	**3.2**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:42	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:42	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:42	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:42	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		07/31/12 17:55	08/01/12 19:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**	**I**	5.0	1.0	mg/L			08/07/12 01:05	5
Ammonia	**0.079**		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:09	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**34**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 08:37	1
Field pH	**5.53**				SU			07/24/12 08:37	1
Field Temperature	**21.6**				Degrees C			07/24/12 08:37	1
Oxygen, Dissolved	**0.3**				mg/L			07/24/12 08:37	1
Sheen	**No**				NONE			07/24/12 08:37	1
Specific Conductance	**51**				umhos/cm			07/24/12 08:37	1
Turbidity	**5.55**				NTU			07/24/12 08:37	1
Ground Water Elevation	**124.04**				ft			07/24/12 08:37	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-27(D)c
Date Collected: 07/24/12 08:09
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 19:11	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 19:11	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 19:11	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 19:11	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 19:11	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 19:11	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 19:11	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 19:11	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 19:11	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 19:11	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 19:11	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 19:11	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 19:11	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 19:11	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 19:11	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 19:11	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 19:11	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:11	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 19:11	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 19:11	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 19:11	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:11	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 19:11	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 19:11	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 19:11	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 19:11	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 19:11	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 19:11	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 19:11	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 19:11	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 19:11	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 19:11	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 19:11	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 19:11	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 19:11	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 19:11	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 19:11	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 19:11	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 19:11	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 19:11	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:11	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 19:11	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 19:11	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 19:11	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 19:11	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 19:11	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/28/12 19:11*	*1*
Dibromofluoromethane	*94*		*81 - 113*		*07/28/12 19:11*	*1*

Client Sample ID: MWB-27(D)c
Date Collected: 07/24/12 08:09
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-16
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/28/12 19:11*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 05:40	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*106*		*56 - 144*	*08/06/12 12:28*	*08/08/12 05:40*	*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		08/01/12 10:42	08/03/12 11:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:48	1
Barium	**53**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:48	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:48	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:48	1
Iron	**680**		100	33	ug/L		08/01/12 10:42	08/03/12 11:48	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:48	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:48	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:48	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:48	1
Sodium	**3.5**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:48	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:48	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 11:48	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 11:48	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		07/31/12 17:55	08/01/12 19:19	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		5.0	1.0	mg/L			08/07/12 01:18	5
Ammonia	**0.11**		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	**0.011**	**I**	0.050	0.010	mg/L			08/07/12 13:10	1
Nitrate as N	**0.011**		0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**58**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/24/12 08:08	1
Field pH	**5.84**				SU			07/24/12 08:08	1
Field Temperature	**21.1**				Degrees C			07/24/12 08:08	1
Oxygen, Dissolved	**0.2**				mg/L			07/24/12 08:08	1
Sheen	**No**				NONE			07/24/12 08:08	1
Specific Conductance	**94**				umhos/cm			07/24/12 08:08	1
Turbidity	**0.4**				NTU			07/24/12 08:08	1
Ground Water Elevation	**123.92**				ft			07/24/12 08:08	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(D)c
Date Collected: 07/24/12 13:11
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 19:33	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 19:33	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 19:33	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 19:33	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 19:33	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 19:33	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 19:33	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 19:33	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 19:33	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 19:33	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 19:33	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 19:33	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 19:33	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 19:33	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 19:33	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 19:33	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 19:33	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:33	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 19:33	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 19:33	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 19:33	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:33	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 19:33	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 19:33	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 19:33	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 19:33	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 19:33	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 19:33	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 19:33	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 19:33	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 19:33	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 19:33	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 19:33	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 19:33	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 19:33	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 19:33	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 19:33	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 19:33	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 19:33	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 19:33	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 19:33	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 19:33	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 19:33	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 19:33	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 19:33	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 19:33	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/28/12 19:33*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*07/28/12 19:33*	*1*

Client Sample ID: MWB-19(D)c
Date Collected: 07/24/12 13:11
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-17
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/28/12 19:33*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:28	08/08/12 05:55	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*98*		*56 - 144*	*08/06/12 12:28*	*08/08/12 05:55*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 11:54	1
Arsenic	**14**		2.5	1.3	ug/L		08/01/12 10:42	08/03/12 11:54	1
Barium	**140**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 11:54	1
Beryllium	**3.1**		0.50	0.25	ug/L		08/01/12 10:42	08/03/12 11:54	1
Cadmium	**1.5**		0.50	0.095	ug/L		08/01/12 10:42	08/03/12 11:54	1
Chromium	**23**		5.0	2.5	ug/L		08/01/12 10:42	08/03/12 11:54	1
Cobalt	**2.7**		0.50	0.15	ug/L		08/01/12 10:42	08/03/12 11:54	1
Copper	**8.5**		5.0	1.1	ug/L		08/01/12 10:42	08/03/12 11:54	1
Iron	**15000**		100	33	ug/L		08/01/12 10:42	08/03/12 11:54	1
Lead	**6.9**		1.5	0.20	ug/L		08/01/12 10:42	08/03/12 11:54	1
Nickel	**10**		5.0	2.0	ug/L		08/01/12 10:42	08/03/12 11:54	1
Selenium	**2.3**	**I**	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 11:54	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 11:54	1
Sodium	**4.5**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 11:54	1
Thallium	**0.99**	**I**	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 11:54	1
Vanadium	**39**		10	3.8	ug/L		08/01/12 10:42	08/03/12 11:54	1
Zinc	**29**		20	8.3	ug/L		08/01/12 10:42	08/03/12 11:54	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Barium	**98**		5.0	1.3	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Iron	**400**		100	33	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Sodium	**4.3**		0.50	0.25	mg/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 12:00	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 12:00	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		07/31/12 17:55	08/01/12 19:23	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-19(D)c
Date Collected: 07/24/12 13:11
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-17
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1	I	5.0	1.0	mg/L			08/07/12 01:30	5
Ammonia	0.11		0.050	0.026	mg/L			08/06/12 14:54	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:12	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	210		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Sl Whitish/Gray Tint				PCU			07/24/12 13:10	1
Field pH	7.36				SU			07/24/12 13:10	1
Field Temperature	21.7				Degrees C			07/24/12 13:10	1
Oxygen, Dissolved	0.0				mg/L			07/24/12 13:10	1
Sheen	No				NONE			07/24/12 13:10	1
Specific Conductance	364				umhos/cm			07/24/12 13:10	1
Turbidity	80.7				NTU			07/24/12 13:10	1
Ground Water Elevation	121.53				ft			07/24/12 13:10	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-27(S)c
Date Collected: 07/24/12 09:09
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 23:46	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 23:46	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 23:46	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 23:46	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 23:46	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 23:46	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 23:46	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 23:46	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 23:46	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 23:46	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 23:46	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 23:46	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 23:46	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 23:46	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 23:46	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 23:46	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 23:46	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 23:46	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 23:46	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 23:46	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 23:46	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 23:46	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 23:46	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 23:46	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 23:46	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 23:46	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 23:46	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 23:46	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 23:46	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 23:46	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 23:46	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 23:46	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 23:46	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 23:46	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 23:46	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 23:46	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 23:46	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 23:46	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 23:46	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 23:46	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 23:46	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 23:46	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 23:46	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 23:46	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 23:46	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 23:46	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/28/12 23:46*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*07/28/12 23:46*	*1*

Client Sample ID: MWB-27(S)c
Date Collected: 07/24/12 09:09
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-18
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/28/12 23:46*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 06:09	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:28*	*08/08/12 06:09*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:46	08/03/12 12:06	1
Arsenic	**1.5**	**I**	2.5	1.3	ug/L		08/01/12 10:46	08/03/12 12:06	1
Barium	**9.9**		5.0	1.3	ug/L		08/01/12 10:46	08/03/12 12:06	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:46	08/03/12 12:06	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:46	08/03/12 12:06	1
Chromium	**5.8**		5.0	2.5	ug/L		08/01/12 10:46	08/03/12 12:06	1
Cobalt	**0.26**	**I**	0.50	0.15	ug/L		08/01/12 10:46	08/03/12 12:06	1
Copper	**1.6**	**I**	5.0	1.1	ug/L		08/01/12 10:46	08/03/12 12:06	1
Iron	**370**		100	33	ug/L		08/01/12 10:46	08/03/12 12:06	1
Lead	**1.5**		1.5	0.20	ug/L		08/01/12 10:46	08/03/12 12:06	1
Nickel	**2.3**	**I**	5.0	2.0	ug/L		08/01/12 10:46	08/03/12 12:06	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:46	08/03/12 12:06	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:46	08/03/12 12:06	1
Sodium	**8.9**		0.50	0.25	mg/L		08/01/12 10:46	08/03/12 12:06	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:46	08/03/12 12:06	1
Vanadium	**11**		10	3.8	ug/L		08/01/12 10:46	08/03/12 12:06	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:46	08/03/12 12:06	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Barium	**7.5**		5.0	1.3	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Chromium	**3.2**	**I**	5.0	2.5	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Cobalt	**0.17**	**I**	0.50	0.15	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Iron	**120**		100	33	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Lead	**0.21**	**I**	1.5	0.20	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Nickel	**2.7**	**I**	5.0	2.0	ug/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Sodium	**9.3**		0.50	0.25	mg/L		08/01/12 10:47	08/03/12 12:12	1
Dissolved Vanadium	**9.7**	**I**	10	3.8	ug/L		08/01/12 10:47	08/03/12 12:12	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		07/31/12 17:55	08/01/12 19:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.7**		5.0	1.0	mg/L			08/07/12 01:42	5
Ammonia	**0.20**		0.050	0.026	mg/L			08/06/12 15:01	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:13	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-27(S)c
Date Collected: 07/24/12 09:09
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-18
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:07	1
Total Dissolved Solids	**150**		5.0	5.0	mg/L			07/31/12 17:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			07/24/12 09:08	1
Field pH	**5.39**				SU			07/24/12 09:08	1
Field Temperature	**23.4**				Degrees C			07/24/12 09:08	1
Oxygen, Dissolved	**0.0**				mg/L			07/24/12 09:08	1
Sheen	**No**				NONE			07/24/12 09:08	1
Specific Conductance	**95**				umhos/cm			07/24/12 09:08	1
Turbidity	**55.91**				NTU			07/24/12 09:08	1
Ground Water Elevation	**121.99**				ft			07/24/12 09:08	1

Client Sample ID: Trip Blank 02 39647
Date Collected: 07/24/12 00:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 17:47	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 17:47	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:47	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 17:47	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 17:47	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 17:47	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 17:47	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 17:47	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 17:47	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:47	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:47	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 17:47	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 17:47	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 17:47	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 17:47	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:47	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 17:47	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:47	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 17:47	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 17:47	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 17:47	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:47	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 17:47	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 17:47	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 17:47	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 17:47	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 17:47	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 17:47	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 17:47	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 17:47	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 17:47	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 17:47	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 17:47	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 17:47	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 17:47	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 17:47	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 17:47	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 17:47	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 17:47	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 17:47	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 17:47	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 17:47	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 17:47	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 17:47	1
Vinyl acetate	0.38	U J	2.0	0.38	ug/L			07/28/12 17:47	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 17:47	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*07/28/12 17:47*	*1*
Dibromofluoromethane	*86*		*81 - 113*		*07/28/12 17:47*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 02 39647
Date Collected: 07/24/12 00:00
Date Received: 07/25/12 13:55

Lab Sample ID: 640-39647-19
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*87 - 112*		*07/28/12 17:47*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Field Blank 02 39701
Date Collected: 07/25/12 15:11
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 22:06	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 22:06	1
Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:50	08/02/12 22:06	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 22:06	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 22:06	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 22:06	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 22:06	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 22:06	1
Iron	33	U	100	33	ug/L		08/01/12 10:50	08/02/12 22:06	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 22:06	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 22:06	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 22:06	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 22:06	1
Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:50	08/02/12 22:06	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 22:06	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 22:06	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 22:06	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		07/31/12 18:29	08/01/12 19:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/07/12 01:55	5
Ammonia	0.026	U	0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:14	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/01/12 16:09	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-32(I)d
Date Collected: 07/25/12 10:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 03:31	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 03:31	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 03:31	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 03:31	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 03:31	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 03:31	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 03:31	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 03:31	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 03:31	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 03:31	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 03:31	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 03:31	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 03:31	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 03:31	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 03:31	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 03:31	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 03:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:31	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 03:31	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 03:31	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 03:31	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:31	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 03:31	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 03:31	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 03:31	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 03:31	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 03:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 03:31	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 03:31	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 03:31	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 03:31	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 03:31	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 03:31	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 03:31	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 03:31	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 03:31	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 03:31	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 03:31	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 03:31	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 03:31	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:31	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 03:31	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 03:31	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 03:31	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 03:31	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 03:31	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*87 - 114*		*08/01/12 03:31*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*08/01/12 03:31*	*1*

Client Sample ID: MWB-32(I)d
Date Collected: 07/25/12 10:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-2
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*87 - 112*		*08/01/12 03:31*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.019	0.0056	ug/L		08/06/12 12:42	08/07/12 19:56	1
EDB	0.0060	U	0.019	0.0060	ug/L		08/06/12 12:42	08/07/12 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*106*		*56 - 144*	*08/06/12 12:42*	*08/07/12 19:56*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 22:36	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 22:36	1
Barium	**37**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 22:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 22:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 22:36	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 22:36	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 22:36	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 22:36	1
Iron	**260**		100	33	ug/L		08/01/12 10:50	08/02/12 22:36	1
Lead	**1.8**		1.5	0.20	ug/L		08/01/12 10:50	08/02/12 22:36	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 22:36	1
Selenium	**1.3**	**I**	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 22:36	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 22:36	1
Sodium	**3.1**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 22:36	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 22:36	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 22:36	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 22:36	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Barium	**31**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 22:42	1
Dissolved Iron	**230**		100	33	ug/L		08/01/12 10:50	08/02/12 22:42	1
Dissolved Lead	**0.45**	**I**	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 22:42	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 22:42	1
Dissolved Sodium	**3.1**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 22:42	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		07/31/12 18:29	08/01/12 19:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.7**	**I**	5.0	1.0	mg/L			08/07/12 02:07	5
Ammonia	**0.039**	**I**	0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:19	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**34**		5.0	5.0	mg/L			08/01/12 16:09	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-32(I)d
Date Collected: 07/25/12 10:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-2
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Sl Whitish Tint				PCU			07/25/12 10:09	1
Field pH	5.34				SU			07/25/12 10:09	1
Field Temperature	21.0				Degrees C			07/25/12 10:09	1
Oxygen, Dissolved	0.2				mg/L			07/25/12 10:09	1
Sheen	No				NONE			07/25/12 10:09	1
Specific Conductance	40				umhos/cm			07/25/12 10:09	1
Turbidity	54.31				NTU			07/25/12 10:09	1
Ground Water Elevation	118.42				ft			07/25/12 10:09	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-32(S)d
Date Collected: 07/25/12 10:43
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 03:53	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 03:53	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 03:53	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 03:53	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 03:53	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 03:53	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 03:53	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 03:53	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 03:53	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 03:53	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 03:53	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 03:53	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 03:53	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 03:53	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 03:53	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 03:53	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 03:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:53	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 03:53	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 03:53	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 03:53	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:53	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 03:53	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 03:53	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 03:53	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 03:53	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 03:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 03:53	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 03:53	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 03:53	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 03:53	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 03:53	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 03:53	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 03:53	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 03:53	1
Toluene	**2.4**		1.0	0.14	ug/L			08/01/12 03:53	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 03:53	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 03:53	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 03:53	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 03:53	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 03:53	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 03:53	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 03:53	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 03:53	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 03:53	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 03:53	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*08/01/12 03:53*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*08/01/12 03:53*	*1*

Client Sample ID: MWB-32(S)d
Date Collected: 07/25/12 10:43
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*87 - 112*		*08/01/12 03:53*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 20:10	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*	*08/06/12 12:42*	*08/07/12 20:10*	*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		08/01/12 10:50	08/02/12 23:00	1
Arsenic	**1.7**	**I**	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:00	1
Barium	**39**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:00	1
Beryllium	**0.26**	**I**	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:00	1
Cadmium	**0.23**	**I**	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:00	1
Chromium	**17**		5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:00	1
Cobalt	**0.57**		0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:00	1
Copper	**10**		5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:00	1
Iron	**1400**		100	33	ug/L		08/01/12 10:50	08/02/12 23:00	1
Lead	**20**		1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:00	1
Nickel	**2.9**	**I**	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:00	1
Selenium	**2.9**		2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:00	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:00	1
Sodium	**14**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:00	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:00	1
Vanadium	**17**		10	3.8	ug/L		08/01/12 10:50	08/02/12 23:00	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:00	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Barium	**19**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Cobalt	**0.23**	**I**	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Iron	**450**		100	33	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Lead	**0.30**	**I**	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Sodium	**15**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:06	1
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.20	0.091	ug/L		07/31/12 18:29	08/01/12 20:02	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-32(S)d
Date Collected: 07/25/12 10:43
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26**		10	2.0	mg/L			08/09/12 11:03	10
Ammonia	**0.29**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:20	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**250**		10	10	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown**				PCU			07/25/12 10:42	1
Field pH	**5.83**				SU			07/25/12 10:42	1
Field Temperature	**23.3**				Degrees C			07/25/12 10:42	1
Oxygen, Dissolved	**0.2**				mg/L			07/25/12 10:42	1
Sheen	**No**				NONE			07/25/12 10:42	1
Specific Conductance	**370**				umhos/cm			07/25/12 10:42	1
Turbidity	**489.4**				NTU			07/25/12 10:42	1
Ground Water Elevation	**116.69**				ft			07/25/12 10:42	1

Client Sample ID: MWB-34(S)d
Date Collected: 07/25/12 12:36
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 04:15	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 04:15	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:15	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 04:15	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 04:15	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 04:15	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 04:15	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 04:15	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:15	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:15	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:15	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 04:15	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 04:15	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 04:15	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 04:15	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:15	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 04:15	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:15	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 04:15	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 04:15	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 04:15	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:15	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 04:15	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 04:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 04:15	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 04:15	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 04:15	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 04:15	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 04:15	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 04:15	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 04:15	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 04:15	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 04:15	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 04:15	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 04:15	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 04:15	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 04:15	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:15	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 04:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 04:15	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:15	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 04:15	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 04:15	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 04:15	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*08/01/12 04:15*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*08/01/12 04:15*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-34(S)d
Date Collected: 07/25/12 12:36
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*87 - 112*		*08/01/12 04:15*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 20:25	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*100*		*56 - 144*	*08/06/12 12:42*	*08/07/12 20:25*	*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		08/01/12 10:50	08/02/12 23:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:12	1
Barium	**7.7**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:12	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:12	1
Cobalt	**0.47**	**I**	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:12	1
Copper	**2.2**	**I**	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:12	1
Iron	**230**		100	33	ug/L		08/01/12 10:50	08/02/12 23:12	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:12	1
Nickel	**2.1**	**I**	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:12	1
Selenium	**1.2**	**I**	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:12	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:12	1
Sodium	**16**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:12	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:12	1
Vanadium	**4.9**	**I**	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:12	1
Zinc	**74**		20	8.3	ug/L		08/01/12 10:50	08/02/12 23:12	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		07/31/12 18:29	08/01/12 20:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.9**		5.0	1.0	mg/L			08/07/12 02:32	5
Ammonia	**0.78**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:21	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**440**		10	10	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 12:35	1
Field pH	**6.23**				SU			07/25/12 12:35	1
Field Temperature	**24.3**				Degrees C			07/25/12 12:35	1
Oxygen, Dissolved	**0.2**				mg/L			07/25/12 12:35	1
Sheen	**No**				NONE			07/25/12 12:35	1
Specific Conductance	**888**				umhos/cm			07/25/12 12:35	1
Turbidity	**3.81**				NTU			07/25/12 12:35	1
Ground Water Elevation	**116.45**				ft			07/25/12 12:35	1

Client Sample ID: MWB-34(I)d
Date Collected: 07/25/12 12:02
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 04:36	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 04:36	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:36	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 04:36	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 04:36	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 04:36	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 04:36	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 04:36	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:36	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:36	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:36	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 04:36	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 04:36	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 04:36	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 04:36	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:36	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 04:36	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:36	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 04:36	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 04:36	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 04:36	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:36	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:36	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 04:36	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 04:36	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 04:36	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 04:36	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 04:36	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 04:36	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 04:36	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 04:36	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 04:36	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 04:36	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 04:36	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 04:36	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 04:36	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 04:36	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 04:36	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:36	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 04:36	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:36	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 04:36	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:36	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 04:36	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 04:36	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 04:36	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*08/01/12 04:36*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*08/01/12 04:36*	*1*

Client Sample ID: MWB-34(I)d
Date Collected: 07/25/12 12:02
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*87 - 112*		*08/01/12 04:36*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 20:54	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:42*	*08/07/12 20:54*	*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		08/01/12 10:50	08/02/12 23:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:18	1
Barium	**49**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:18	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:18	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:18	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:18	1
Iron	**410**		100	33	ug/L		08/01/12 10:50	08/02/12 23:18	1
Lead	**0.46**	**I**	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:18	1
Nickel	**3.2**	**I**	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:18	1
Selenium	**1.0**	**I**	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:18	1
Sodium	**3.2**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:18	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:18	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:18	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		07/31/12 18:29	08/01/12 20:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.9**	**I**	5.0	1.0	mg/L			08/07/12 11:16	5
Ammonia	**0.067**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:22	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**26**		5.0	5.0	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 12:01	1
Field pH	**5.23**				SU			07/25/12 12:01	1
Field Temperature	**24.4**				Degrees C			07/25/12 12:01	1
Oxygen, Dissolved	**0.2**				mg/L			07/25/12 12:01	1
Sheen	**No**				NONE			07/25/12 12:01	1
Specific Conductance	**43**				umhos/cm			07/25/12 12:01	1
Turbidity	**7.17**				NTU			07/25/12 12:01	1
Ground Water Elevation	**117.83**				ft			07/25/12 12:01	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-34(D)d
Date Collected: 07/25/12 11:27
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 04:58	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 04:58	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:58	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 04:58	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 04:58	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 04:58	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 04:58	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 04:58	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 04:58	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:58	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:58	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 04:58	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 04:58	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 04:58	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 04:58	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:58	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 04:58	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:58	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 04:58	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 04:58	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 04:58	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:58	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 04:58	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 04:58	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 04:58	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 04:58	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 04:58	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 04:58	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 04:58	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 04:58	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 04:58	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 04:58	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 04:58	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 04:58	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 04:58	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 04:58	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 04:58	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 04:58	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 04:58	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 04:58	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 04:58	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 04:58	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 04:58	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 04:58	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 04:58	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 04:58	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*08/01/12 04:58*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*08/01/12 04:58*	*1*

Client Sample ID: MWB-34(D)d
Date Collected: 07/25/12 11:27
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*87 - 112*		*08/01/12 04:58*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 21:09	1
EDB	0.0060	U	0.019	0.0060	ug/L		08/06/12 12:42	08/07/12 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*08/06/12 12:42*	*08/07/12 21:09*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 23:24	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:24	1
Barium	**100**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:24	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:24	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:24	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:24	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:24	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:24	1
Iron	**450**		100	33	ug/L		08/01/12 10:50	08/02/12 23:24	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:24	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:24	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:24	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:24	1
Sodium	**6.0**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:24	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:24	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:24	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:24	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		07/31/12 18:29	08/01/12 20:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**	**I**	5.0	1.0	mg/L			08/07/12 11:41	5
Ammonia	**0.18**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:24	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**230**		5.0	5.0	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 11:26	1
Field pH	**7.04**				SU			07/25/12 11:26	1
Field Temperature	**22.6**				Degrees C			07/25/12 11:26	1
Oxygen, Dissolved	**0.2**				mg/L			07/25/12 11:26	1
Sheen	**No**				NONE			07/25/12 11:26	1
Specific Conductance	**429**				umhos/cm			07/25/12 11:26	1
Turbidity	**1.12**				NTU			07/25/12 11:26	1
Ground Water Elevation	**117.78**				ft			07/25/12 11:26	1

Client Sample ID: MWB-33(S)d
Date Collected: 07/25/12 08:57
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 05:19	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 05:19	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 05:19	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 05:19	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 05:19	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 05:19	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 05:19	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 05:19	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 05:19	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 05:19	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 05:19	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 05:19	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 05:19	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 05:19	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 05:19	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 05:19	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 05:19	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:19	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 05:19	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 05:19	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 05:19	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:19	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 05:19	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 05:19	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 05:19	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 05:19	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 05:19	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 05:19	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 05:19	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 05:19	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 05:19	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 05:19	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 05:19	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 05:19	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 05:19	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 05:19	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 05:19	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 05:19	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 05:19	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 05:19	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:19	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 05:19	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 05:19	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 05:19	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 05:19	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 05:19	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*08/01/12 05:19*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*08/01/12 05:19*	*1*

Client Sample ID: MWB-33(S)d
Date Collected: 07/25/12 08:57
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*87 - 112*		*08/01/12 05:19*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 21:24	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*101*		*56 - 144*	*08/06/12 12:42*	*08/07/12 21:24*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 23:30	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:30	1
Barium	**31**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:30	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:30	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:30	1
Cobalt	**0.32**	**I**	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:30	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:30	1
Iron	**640**		100	33	ug/L		08/01/12 10:50	08/02/12 23:30	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:30	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:30	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:30	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:30	1
Sodium	**13**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:30	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:30	1
Vanadium	**6.8**	**I**	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:30	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:30	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		07/31/12 18:29	08/01/12 20:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		5.0	1.0	mg/L			08/07/12 12:06	5
Ammonia	**0.67**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	**0.033**	**I**	0.050	0.010	mg/L			08/07/12 13:25	1
Nitrate as N	**0.033**		0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**160**		5.0	5.0	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 08:56	1
Field pH	**5.23**				SU			07/25/12 08:56	1
Field Temperature	**24.4**				Degrees C			07/25/12 08:56	1
Oxygen, Dissolved	**0.3**				mg/L			07/25/12 08:56	1
Sheen	**No**				NONE			07/25/12 08:56	1
Specific Conductance	**255**				umhos/cm			07/25/12 08:56	1
Turbidity	**3.87**				NTU			07/25/12 08:56	1
Ground Water Elevation	**115.66**				ft			07/25/12 08:56	1

Client Sample ID: MWB-21(S)c
Date Collected: 07/25/12 08:25
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 05:41	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 05:41	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 05:41	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 05:41	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 05:41	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 05:41	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 05:41	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 05:41	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 05:41	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 05:41	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 05:41	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 05:41	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 05:41	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 05:41	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 05:41	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 05:41	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 05:41	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:41	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 05:41	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 05:41	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 05:41	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:41	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 05:41	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 05:41	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 05:41	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 05:41	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 05:41	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 05:41	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 05:41	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 05:41	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 05:41	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 05:41	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 05:41	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 05:41	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 05:41	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 05:41	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 05:41	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 05:41	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 05:41	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 05:41	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 05:41	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 05:41	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 05:41	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 05:41	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 05:41	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 05:41	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*08/01/12 05:41*	*1*
Dibromofluoromethane	*97*		*81 - 113*		*08/01/12 05:41*	*1*

Client Sample ID: MWB-21(S)c
Date Collected: 07/25/12 08:25
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*87 - 112*		*08/01/12 05:41*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		08/06/12 12:42	08/07/12 21:38	1
EDB	0.0062	U	0.019	0.0062	ug/L		08/06/12 12:42	08/07/12 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*	*08/06/12 12:42*	*08/07/12 21:38*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 23:36	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:36	1
Barium	**13**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:36	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:36	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:36	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:36	1
Iron	**430**		100	33	ug/L		08/01/12 10:50	08/02/12 23:36	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:36	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:36	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:36	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:36	1
Sodium	**1.8**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:36	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:36	1
Vanadium	**3.9**	**I**	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:36	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:36	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		07/31/12 18:29	08/01/12 20:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.4**	**I**	5.0	1.0	mg/L			08/07/12 12:18	5
Ammonia	**0.13**		0.050	0.026	mg/L			08/06/12 15:24	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:26	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**120**		5.0	5.0	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 08:24	1
Field pH	**5.2**				SU			07/25/12 08:24	1
Field Temperature	**24.2**				Degrees C			07/25/12 08:24	1
Oxygen, Dissolved	**0.1**				mg/L			07/25/12 08:24	1
Sheen	**No**				NONE			07/25/12 08:24	1
Specific Conductance	**165**				umhos/cm			07/25/12 08:24	1
Turbidity	**3.14**				NTU			07/25/12 08:24	1
Ground Water Elevation	**112.14**				ft			07/25/12 08:24	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: MWB-32(D)d
Date Collected: 07/25/12 09:32
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 06:03	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 06:03	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 06:03	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 06:03	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 06:03	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 06:03	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 06:03	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 06:03	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 06:03	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 06:03	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 06:03	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 06:03	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 06:03	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 06:03	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 06:03	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 06:03	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 06:03	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:03	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 06:03	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 06:03	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 06:03	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:03	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 06:03	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 06:03	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 06:03	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 06:03	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 06:03	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 06:03	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 06:03	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 06:03	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 06:03	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 06:03	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 06:03	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 06:03	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 06:03	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 06:03	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 06:03	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 06:03	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 06:03	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 06:03	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:03	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 06:03	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 06:03	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 06:03	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 06:03	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 06:03	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*08/01/12 06:03*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*08/01/12 06:03*	*1*

Client Sample ID: MWB-32(D)d
Date Collected: 07/25/12 09:32
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-9
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*87 - 112*		*08/01/12 06:03*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:42	08/07/12 19:41	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:42	08/07/12 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*103*		*56 - 144*	*08/06/12 12:42*	*08/07/12 19:41*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 23:42	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 23:42	1
Barium	**51**		5.0	1.3	ug/L		08/01/12 10:50	08/02/12 23:42	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 23:42	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 23:42	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 23:42	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 23:42	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 23:42	1
Iron	**570**		100	33	ug/L		08/01/12 10:50	08/02/12 23:42	1
Lead	**0.32**	**I**	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 23:42	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 23:42	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 23:42	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 23:42	1
Sodium	**4.3**		0.50	0.25	mg/L		08/01/12 10:50	08/02/12 23:42	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 23:42	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 23:42	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 23:42	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		07/31/12 18:29	08/01/12 20:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.8**	**I**	5.0	1.0	mg/L			08/07/12 12:30	5
Ammonia	**0.10**		0.050	0.026	mg/L			08/06/12 16:02	1
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:27	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**76**		5.0	5.0	mg/L			08/01/12 16:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			07/25/12 09:31	1
Field pH	**5.98**				SU			07/25/12 09:31	1
Field Temperature	**21.0**				Degrees C			07/25/12 09:31	1
Oxygen, Dissolved	**0.4**				mg/L			07/25/12 09:31	1
Sheen	**No**				NONE			07/25/12 09:31	1
Specific Conductance	**139**				umhos/cm			07/25/12 09:31	1
Turbidity	**4.8**				NTU			07/25/12 09:31	1
Ground Water Elevation	**118.27**				ft			07/25/12 09:31	1

Client Sample ID: Trip Blank 03 39701
Date Collected: 07/25/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			08/01/12 06:24	1
Acrylonitrile	3.0	U	20	3.0	ug/L			08/01/12 06:24	1
Benzene	0.13	U	1.0	0.13	ug/L			08/01/12 06:24	1
Bromoform	0.18	U	1.0	0.18	ug/L			08/01/12 06:24	1
Bromomethane	0.51	U	1.0	0.51	ug/L			08/01/12 06:24	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			08/01/12 06:24	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			08/01/12 06:24	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			08/01/12 06:24	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			08/01/12 06:24	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			08/01/12 06:24	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			08/01/12 06:24	1
Chloroethane	0.33	U	1.0	0.33	ug/L			08/01/12 06:24	1
Chloroform	0.12	U	1.0	0.12	ug/L			08/01/12 06:24	1
Chloromethane	0.18	U	1.0	0.18	ug/L			08/01/12 06:24	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			08/01/12 06:24	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 06:24	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			08/01/12 06:24	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:24	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			08/01/12 06:24	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			08/01/12 06:24	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			08/01/12 06:24	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:24	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			08/01/12 06:24	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			08/01/12 06:24	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			08/01/12 06:24	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			08/01/12 06:24	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			08/01/12 06:24	1
2-Hexanone	1.0	U	10	1.0	ug/L			08/01/12 06:24	1
Iodomethane	0.13	U	5.0	0.13	ug/L			08/01/12 06:24	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			08/01/12 06:24	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			08/01/12 06:24	1
Styrene	0.12	U	1.0	0.12	ug/L			08/01/12 06:24	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			08/01/12 06:24	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			08/01/12 06:24	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			08/01/12 06:24	1
Toluene	0.14	U	1.0	0.14	ug/L			08/01/12 06:24	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			08/01/12 06:24	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			08/01/12 06:24	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			08/01/12 06:24	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			08/01/12 06:24	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			08/01/12 06:24	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			08/01/12 06:24	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			08/01/12 06:24	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			08/01/12 06:24	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			08/01/12 06:24	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			08/01/12 06:24	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			08/01/12 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*08/01/12 06:24*	*1*
Dibromofluoromethane	*93*		*81 - 113*		*08/01/12 06:24*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 03 39701
Date Collected: 07/25/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39701-10
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*87 - 112*		*08/01/12 06:24*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-1
Date Collected: 07/26/12 08:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 17:04	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 17:04	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:04	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 17:04	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 17:04	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 17:04	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 17:04	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 17:04	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:04	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:04	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:04	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 17:04	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 17:04	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 17:04	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 17:04	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:04	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 17:04	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:04	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 17:04	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 17:04	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 17:04	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:04	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:04	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 17:04	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 17:04	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 17:04	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 17:04	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 17:04	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 17:04	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 17:04	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 17:04	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 17:04	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 17:04	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 17:04	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 17:04	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 17:04	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 17:04	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 17:04	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:04	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 17:04	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:04	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 17:04	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:04	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 17:04	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 17:04	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 17:04	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*07/31/12 17:04*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*07/31/12 17:04*	*1*

Client Sample ID: SW-1
Date Collected: 07/26/12 08:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-1
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*87 - 112*		*07/31/12 17:04*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 06:23	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*08/06/12 12:28*	*08/08/12 06:23*	*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		07/31/12 15:00	08/07/12 13:49	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		07/30/12 16:27	08/03/12 06:36	1
Arsenic	**1.7**	**I**	2.5	1.3	ug/L		07/30/12 16:27	08/03/12 06:36	1
Barium	**45**		5.0	1.3	ug/L		07/30/12 16:27	08/03/12 06:36	1
Beryllium	0.25	U	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 06:36	1
Cadmium	0.095	U	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 06:36	1
Chromium	**4.3**	**I**	5.0	2.5	ug/L		07/30/12 16:27	08/03/12 06:36	1
Cobalt	**0.72**		0.50	0.15	ug/L		07/30/12 16:27	08/03/12 06:36	1
Copper	**1.2**	**I**	5.0	1.1	ug/L		07/30/12 16:27	08/03/12 06:36	1
Iron	**7600**		100	33	ug/L		07/30/12 16:27	08/03/12 06:36	1
Lead	**4.7**		1.5	0.20	ug/L		07/30/12 16:27	08/03/12 06:36	1
Nickel	**4.5**	**I**	5.0	2.0	ug/L		07/30/12 16:27	08/03/12 06:36	1
Selenium	**2.4**	**I**	2.5	1.0	ug/L		07/30/12 16:27	08/03/12 06:36	1
Silver	0.25	U	1.0	0.25	ug/L		07/30/12 16:27	08/03/12 06:36	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 06:36	1
Vanadium	**7.0**	**I**	10	3.8	ug/L		07/30/12 16:27	08/03/12 06:36	1
Zinc	**29**		20	8.3	ug/L		07/30/12 16:27	08/03/12 06:36	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**38**		3.3	3.3	mg/L			08/03/12 06:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.25	0.050	mg/L			08/07/12 14:00	5
Phosphorus	**0.24**	**I**	0.50	0.12	mg/L		08/09/12 08:43	08/10/12 14:32	1
Nitrate as N	0.024	U	0.050	0.024	mg/L			08/09/12 14:16	5
Total Dissolved Solids	**210**		5.0	5.0	mg/L			08/02/12 13:33	1
Total Suspended Solids	**45**		3.1	3.1	mg/L			08/02/12 08:59	1
ortho-Phosphate	**0.021**		0.010	0.0014	mg/L			07/27/12 18:25	1
Chemical Oxygen Demand	**240**		20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1
Total Organic Carbon	**84**		5.0	1.8	mg/L			07/30/12 17:29	5
Nitrogen, Total	**4.0**		0.25	0.25	mg/L			08/10/12 16:06	1
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			08/09/12 14:46	1

Client Sample Results

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-1
Date Collected: 07/26/12 08:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-1
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			07/26/12 08:00	1
Field pH	6.13				SU			07/26/12 08:00	1
Field Temperature	25.1				Degrees C			07/26/12 08:00	1
Oxygen, Dissolved	5.1				mg/L			07/26/12 08:00	1
Sheen	No				NONE			07/26/12 08:00	1
Specific Conductance	105				umhos/cm			07/26/12 08:00	1
Turbidity	31.86				NTU			07/26/12 08:00	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-2
Date Collected: 07/26/12 07:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 17:25	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 17:25	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:25	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 17:25	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 17:25	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 17:25	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 17:25	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 17:25	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:25	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:25	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:25	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 17:25	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 17:25	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 17:25	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 17:25	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:25	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 17:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:25	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 17:25	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 17:25	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 17:25	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:25	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:25	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 17:25	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 17:25	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 17:25	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 17:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 17:25	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 17:25	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 17:25	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 17:25	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 17:25	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 17:25	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 17:25	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 17:25	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 17:25	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 17:25	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 17:25	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:25	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 17:25	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:25	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 17:25	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:25	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 17:25	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 17:25	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 17:25	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/31/12 17:25*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*07/31/12 17:25*	*1*

Client Sample ID: SW-2
Date Collected: 07/26/12 07:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-2
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*87 - 112*		*07/31/12 17:25*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 06:38	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*100*		*56 - 144*	*08/06/12 12:28*	*08/08/12 06:38*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		07/31/12 15:00	08/07/12 15:40	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**15**		5.0	2.3	ug/L		07/30/12 16:27	08/03/12 06:42	1
Arsenic	**1.3**	**I**	2.5	1.3	ug/L		07/30/12 16:27	08/03/12 06:42	1
Barium	**110**		5.0	1.3	ug/L		07/30/12 16:27	08/03/12 06:42	1
Beryllium	**0.42**	**I**	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 06:42	1
Cadmium	**0.30**	**I**	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 06:42	1
Chromium	**23**		5.0	2.5	ug/L		07/30/12 16:27	08/03/12 06:42	1
Cobalt	**1.5**		0.50	0.15	ug/L		07/30/12 16:27	08/03/12 06:42	1
Copper	**45**		5.0	1.1	ug/L		07/30/12 16:27	08/03/12 06:42	1
Iron	**530**		100	33	ug/L		07/30/12 16:27	08/03/12 06:42	1
Lead	**3.8**		1.5	0.20	ug/L		07/30/12 16:27	08/03/12 06:42	1
Nickel	**61**		5.0	2.0	ug/L		07/30/12 16:27	08/03/12 06:42	1
Selenium	**1.5**	**I**	2.5	1.0	ug/L		07/30/12 16:27	08/03/12 06:42	1
Silver	**1.6**		1.0	0.25	ug/L		07/30/12 16:27	08/03/12 06:42	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 06:42	1
Vanadium	**49**		10	3.8	ug/L		07/30/12 16:27	08/03/12 06:42	1
Zinc	**63**		20	8.3	ug/L		07/30/12 16:27	08/03/12 06:42	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	**10**		3.3	3.3	mg/L			08/03/12 06:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 14:04	1
Phosphorus	**0.033**	**I**	0.10	0.024	mg/L		08/09/12 08:43	08/10/12 14:32	1
Nitrate as N	0.0047	U	0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**38**		5.0	5.0	mg/L			08/02/12 13:33	1
Total Suspended Solids	**1.6**		1.0	1.0	mg/L			08/02/12 08:59	1
ortho-Phosphate	**0.0074**	**I**	0.010	0.0014	mg/L			07/27/12 18:13	1
Chemical Oxygen Demand	**61**		20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1
Total Organic Carbon	**9.8**		1.0	0.35	mg/L			07/29/12 04:14	1
Nitrogen, Total	**0.36**		0.25	0.25	mg/L			08/10/12 16:06	1
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			08/09/12 14:46	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-2
Date Collected: 07/26/12 07:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-2
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	None				PCU			07/26/12 07:00	1
Field pH	4.62				SU			07/26/12 07:00	1
Field Temperature	21.7				Degrees C			07/26/12 07:00	1
Oxygen, Dissolved	5.8				mg/L			07/26/12 07:00	1
Sheen	No				NONE			07/26/12 07:00	1
Specific Conductance	64				umhos/cm			07/26/12 07:00	1
Turbidity	2.52				NTU			07/26/12 07:00	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-3
Date Collected: 07/26/12 07:25
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**82**		25	2.8	ug/L			07/31/12 17:47	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 17:47	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:47	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 17:47	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 17:47	1
2-Butanone (MEK)	**77**		10	2.6	ug/L			07/31/12 17:47	1
Carbon disulfide	**1.1**		1.0	0.23	ug/L			07/31/12 17:47	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 17:47	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 17:47	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:47	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:47	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 17:47	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 17:47	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 17:47	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 17:47	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:47	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 17:47	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:47	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 17:47	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 17:47	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 17:47	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:47	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 17:47	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 17:47	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 17:47	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 17:47	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 17:47	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 17:47	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 17:47	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 17:47	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 17:47	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 17:47	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 17:47	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 17:47	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 17:47	1
Toluene	**20**		1.0	0.14	ug/L			07/31/12 17:47	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 17:47	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 17:47	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 17:47	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 17:47	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 17:47	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 17:47	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 17:47	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 17:47	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 17:47	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 17:47	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/31/12 17:47*	*1*
Dibromofluoromethane	*97*		*81 - 113*		*07/31/12 17:47*	*1*

Client Sample ID: SW-3
Date Collected: 07/26/12 07:25
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-3
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/31/12 17:47*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		08/06/12 12:28	08/08/12 07:06	1
EDB	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:28	08/08/12 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*08/06/12 12:28*	*08/08/12 07:06*	*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		07/31/12 15:00	08/07/12 15:48	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		07/30/12 16:27	08/03/12 06:48	1
Arsenic	**2.8**		2.5	1.3	ug/L		07/30/12 16:27	08/03/12 06:48	1
Barium	**48**		5.0	1.3	ug/L		07/30/12 16:27	08/03/12 06:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 06:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 06:48	1
Chromium	**2.6**	**I**	5.0	2.5	ug/L		07/30/12 16:27	08/03/12 06:48	1
Cobalt	**0.22**	**I**	0.50	0.15	ug/L		07/30/12 16:27	08/03/12 06:48	1
Copper	1.1	U	5.0	1.1	ug/L		07/30/12 16:27	08/03/12 06:48	1
Iron	**760**		100	33	ug/L		07/30/12 16:27	08/03/12 06:48	1
Lead	**1.8**		1.5	0.20	ug/L		07/30/12 16:27	08/03/12 06:48	1
Nickel	**5.2**		5.0	2.0	ug/L		07/30/12 16:27	08/03/12 06:48	1
Selenium	1.0	U	2.5	1.0	ug/L		07/30/12 16:27	08/03/12 06:48	1
Silver	0.25	U	1.0	0.25	ug/L		07/30/12 16:27	08/03/12 06:48	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 06:48	1
Vanadium	**4.8**	**I**	10	3.8	ug/L		07/30/12 16:27	08/03/12 06:48	1
Zinc	**10**	**I**	20	8.3	ug/L		07/30/12 16:27	08/03/12 06:48	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	**170**		3.3	3.3	mg/L			08/03/12 06:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.023**	**I**	0.050	0.010	mg/L			08/07/12 14:05	1
Phosphorus	**0.23**	**I**	0.50	0.12	mg/L		08/09/12 08:43	08/10/12 14:32	1
Nitrate as N	**0.023**		0.010	0.0047	mg/L			08/09/12 14:16	1
Total Dissolved Solids	**280**		5.0	5.0	mg/L			08/02/12 13:33	1
Total Suspended Solids	**12**		1.0	1.0	mg/L			08/02/12 08:59	1
ortho-Phosphate	**0.030**		0.010	0.0014	mg/L			07/27/12 18:26	1
Chemical Oxygen Demand	**190**		20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1
Total Organic Carbon	**48**		4.0	1.4	mg/L			07/30/12 18:03	4
Nitrogen, Total	**6.2**		0.25	0.25	mg/L			08/10/12 16:06	1
Unionized Ammonia	**0.050**		0.00028	0.00028	mg/L			08/09/12 14:46	1

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-3
Date Collected: 07/26/12 07:25
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-3
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Brown Tint				PCU			07/26/12 07:25	1
Field pH	7.16				SU			07/26/12 07:25	1
Field Temperature	28.3				Degrees C			07/26/12 07:25	1
Oxygen, Dissolved	4.6				mg/L			07/26/12 07:25	1
Sheen	No				NONE			07/26/12 07:25	1
Specific Conductance	457				umhos/cm			07/26/12 07:25	1
Turbidity	26.49				NTU			07/26/12 07:25	1

Client Sample ID: Trip Blank 39703
Date Collected: 07/26/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 12:43	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 12:43	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:43	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 12:43	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 12:43	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 12:43	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 12:43	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 12:43	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:43	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:43	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:43	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 12:43	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 12:43	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 12:43	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 12:43	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:43	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 12:43	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:43	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 12:43	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 12:43	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 12:43	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:43	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:43	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 12:43	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 12:43	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 12:43	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 12:43	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 12:43	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 12:43	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 12:43	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 12:43	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 12:43	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 12:43	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 12:43	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 12:43	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 12:43	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 12:43	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 12:43	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:43	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 12:43	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:43	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 12:43	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:43	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 12:43	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 12:43	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 12:43	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*07/31/12 12:43*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*07/31/12 12:43*	*1*

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: Trip Blank 39703
Date Collected: 07/26/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39703-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/31/12 12:43*	*1*

Surrogate Summary

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

TestAmerica Job ID: 640-39625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(87-114)	(81-113)	(87-112)
640-39625-1	MWB-29(S)c	94	104	99
640-39625-1 MS	MWB-29(S)c	97	107	101
640-39625-1 MSD	MWB-29(S)c	91	108	97
640-39625-2	MWB-29(I)c	94	106	102
640-39625-3	MWB-29(D)c	91	105	100
640-39625-4	MWB-31(D)b	93	103	101
640-39625-5	MWB-2(S)b	92	103	102
640-39625-6	MWB-2(I)b	92	105	101
640-39625-7	MWB-13(S)c	91	105	100
640-39625-8	MWB-13(I)c	92	103	102
640-39625-9	MWB-22(S)c	90	105	100
640-39625-10	MWB-12(S)c	89	106	101
640-39625-11	MWB-12(1)c	92	104	101
640-39625-12	MWB-12(D)c	93	104	103
640-39625-13	Trip Blank 01 39625	93	106	100
640-39647-2	MWB-11(1)(R)c	91	102	102
640-39647-3	MWB-11(S)c	92	99	101
640-39647-4	MWB-20(S)c	88	101	105
640-39647-5	MWB-7(S)c	88	101	103
640-39647-6	MWB-7(1)c	91	95	105
640-39647-7	MWB-7(D)c	98	96	99
640-39647-8	MWB-19(S)c	101	90	100
640-39647-9	MWB-19(I)c	99	91	99
640-39647-10	MWB-17(S)c	93	90	91
640-39647-11	MWB-17(I)c	98	88	97
640-39647-12	MWB-17(D)c	99	92	101
640-39647-13	MWB-3(S)b	100	93	99
640-39647-14	MWB-3(I)b	100	91	100
640-39647-15	MWB-27(I)c	102	91	101
640-39647-16	MWB-27(D)c	100	94	101
640-39647-17	MWB-19(D)c	100	89	99
640-39647-18	MWB-27(S)c	100	89	97
640-39647-19	Trip Blank 02 39647	99	86	98
640-39701-2	MWB-32(I)d	102	96	99
640-39701-3	MWB-32(S)d	100	96	97
640-39701-4	MWB-34(S)d	98	96	94
640-39701-5	MWB-34(I)d	97	96	99
640-39701-6	MWB-34(D)d	96	95	98
640-39701-7	MWB-33(S)d	95	96	97
640-39701-8	MWB-21(S)c	99	97	96
640-39701-9	MWB-32(D)d	99	95	98
640-39701-9 MS	MWB-32(D)d	101	96	96
640-39701-9 MSD	MWB-32(D)d	101	97	96
640-39701-10	Trip Blank 03 39701	97	93	96
640-39703-1	SW-1	101	99	96
640-39703-2	SW-2	100	99	99
640-39703-3	SW-3	100	97	97
640-39703-4	Trip Blank 39703	98	99	97
LCS 640-94569/2	Lab Control Sample	99	108	104
LCS 640-94618/3	Lab Control Sample	106	93	102

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(87-114)	(81-113)	(87-112)
LCS 640-94641/3	Lab Control Sample	102	99	99
LCS 640-94650/2	Lab Control Sample	97	103	104
LCS 640-94651/1	Lab Control Sample	105	91	102
LCS 640-94681/26	Lab Control Sample	101	99	98
LCSD 640-94569/4	Lab Control Sample Dup	98	108	104
LCSD 640-94618/4	Lab Control Sample Dup	106	90	101
LCSD 640-94641/4	Lab Control Sample Dup	101	100	100
LCSD 640-94650/4	Lab Control Sample Dup	98	104	105
LCSD 640-94651/3	Lab Control Sample Dup	105	93	103
LCSD 640-94681/3	Lab Control Sample Dup	99	98	98
MB 640-94569/5	Method Blank	95	103	103
MB 640-94618/5	Method Blank	101	89	101
MB 640-94641/28	Method Blank	97	96	100
MB 640-94650/5	Method Blank	96	101	102
MB 640-94651/4	Method Blank	103	92	103
MB 640-94681/4	Method Blank	98	99	97

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**

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA2
Lab Sample ID	Client Sample ID	(56-144)
640-39625-1	MWB-29(S)c	107
640-39625-2	MWB-29(I)c	108
640-39625-3	MWB-29(D)c	113
640-39625-4	MWB-31(D)b	100
640-39625-5	MWB-2(S)b	100
640-39625-6	MWB-2(I)b	105
640-39625-7	MWB-13(S)c	101
640-39625-8	MWB-13(I)c	106
640-39625-9	MWB-22(S)c	117
640-39625-10	MWB-12(S)c	99
640-39625-11	MWB-12(1)c	102
640-39625-12	MWB-12(D)c	95
640-39647-2	MWB-11(1)(R)c	110
640-39647-2 MS	MWB-11(1)(R)c	103
640-39647-2 MSD	MWB-11(1)(R)c	94
640-39647-3	MWB-11(S)c	104
640-39647-4	MWB-20(S)c	105
640-39647-5	MWB-7(S)c	101
640-39647-6	MWB-7(1)c	96
640-39647-7	MWB-7(D)c	101
640-39647-8	MWB-19(S)c	102
640-39647-9	MWB-19(I)c	107
640-39647-10	MWB-17(S)c	102

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	TCEA2 (56-144)						
640-39647-11	MWB-17(I)c	122						
640-39647-12	MWB-17(D)c	114						
640-39647-13	MWB-3(S)b	97						
640-39647-14	MWB-3(I)b	104						
640-39647-15	MWB-27(I)c	100						
640-39647-16	MWB-27(D)c	106						
640-39647-17	MWB-19(D)c	98						
640-39647-18	MWB-27(S)c	102						
640-39701-2	MWB-32(I)d	106						
640-39701-3	MWB-32(S)d	113						
640-39701-4	MWB-34(S)d	100						
640-39701-5	MWB-34(I)d	102						
640-39701-6	MWB-34(D)d	104						
640-39701-7	MWB-33(S)d	101						
640-39701-8	MWB-21(S)c	102						
640-39701-9	MWB-32(D)d	103						
640-39701-9 MS	MWB-32(D)d	104						
640-39701-9 MSD	MWB-32(D)d	103						
640-39703-1	SW-1	104						
640-39703-2	SW-2	100						
640-39703-3	SW-3	104						
LCS 640-94826/2-A	Lab Control Sample	96						
LCS 640-94827/2-A	Lab Control Sample	100						
LCSD 640-94826/3-A	Lab Control Sample Dup	98						
LCSD 640-94827/3-A	Lab Control Sample Dup	105						
MB 640-94826/1-A	Method Blank	95						
MB 640-94827/1-A	Method Blank	105						

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

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

TestAmerica Job ID: 640-39625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 640-94569/5
Matrix: Water
Analysis Batch: 94569

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 01:30	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 01:30	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 01:30	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 01:30	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/27/12 01:30	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 01:30	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 01:30	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 01:30	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 01:30	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 01:30	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 01:30	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/27/12 01:30	1
Chloroform	0.309	I	1.0	0.12	ug/L			07/27/12 01:30	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/27/12 01:30	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 01:30	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 01:30	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 01:30	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:30	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 01:30	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 01:30	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 01:30	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:30	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 01:30	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 01:30	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 01:30	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 01:30	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 01:30	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 01:30	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 01:30	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 01:30	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 01:30	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 01:30	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 01:30	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 01:30	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 01:30	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 01:30	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 01:30	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 01:30	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 01:30	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 01:30	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 01:30	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 01:30	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 01:30	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 01:30	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 01:30	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/27/12 01:30	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 01:30	1

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

Lab Sample ID: MB 640-94569/5
Matrix: Water
Analysis Batch: 94569

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		87 - 114		07/27/12 01:30	1
Dibromofluoromethane	103		81 - 113		07/27/12 01:30	1
Toluene-d8 (Surr)	103		87 - 112		07/27/12 01:30	1

Lab Sample ID: LCS 640-94569/2
Matrix: Water
Analysis Batch: 94569

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	304		ug/L		101	64 - 132
Acrylonitrile	600	619		ug/L		103	72 - 124
Benzene	30.0	30.0		ug/L		100	80 - 120
Bromoform	30.0	21.0		ug/L		70	64 - 132
Bromomethane	30.0	49.2	J	ug/L		164	37 - 146
2-Butanone (MEK)	300	258		ug/L		86	66 - 132
Carbon disulfide	30.0	32.7		ug/L		109	72 - 132
Carbon tetrachloride	30.0	23.7		ug/L		79	79 - 126
Chlorobenzene	30.0	28.0		ug/L		93	82 - 116
Chlorobromomethane	30.0	31.0		ug/L		103	72 - 124
Chlorodibromomethane	30.0	24.2		ug/L		81	73 - 125
Chloroethane	30.0	60.3	J	ug/L		201	47 - 160
Chloroform	30.0	29.1		ug/L		97	81 - 120
Chloromethane	30.0	55.9	J	ug/L		186	61 - 136
cis-1,2-Dichloroethene	30.0	32.5		ug/L		108	75 - 128
cis-1,3-Dichloropropene	30.0	27.3		ug/L		91	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	20.0		ug/L		67	57 - 128
Dibromomethane	30.0	26.8		ug/L		89	80 - 119
1,2-Dichlorobenzene	30.0	26.5		ug/L		88	83 - 122
1,4-Dichlorobenzene	30.0	27.0		ug/L		90	82 - 119
Dichlorobromomethane	30.0	25.8		ug/L		86	82 - 120
1,1-Dichloroethane	30.0	33.2		ug/L		111	78 - 124
1,2-Dichloroethane	30.0	25.1		ug/L		84	82 - 123
1,1-Dichloroethene	30.0	34.1		ug/L		114	72 - 133
1,2-Dichloropropane	30.0	30.2		ug/L		101	78 - 121
Ethylbenzene	30.0	28.5		ug/L		95	85 - 119
Ethylene Dibromide	30.0	25.2		ug/L		84	78 - 120
2-Hexanone	300	249		ug/L		83	54 - 132
Iodomethane	30.0	45.1	L	ug/L		150	32 - 169
Methylene Chloride	30.0	33.0		ug/L		110	75 - 125
4-Methyl-2-pentanone (MIBK)	300	252		ug/L		84	67 - 134
Styrene	30.0	29.0		ug/L		97	86 - 121
1,1,1,2-Tetrachloroethane	30.0	25.7		ug/L		86	80 - 118
1,1,2,2-Tetrachloroethane	30.0	25.2		ug/L		84	78 - 118
Tetrachloroethene	30.0	26.0		ug/L		87	81 - 126
Toluene	30.0	28.7		ug/L		96	82 - 122
trans-1,4-Dichloro-2-butene	60.0	44.7	J	ug/L		75	76 - 128
trans-1,2-Dichloroethene	30.0	33.1		ug/L		110	77 - 128
trans-1,3-Dichloropropene	30.0	25.9		ug/L		86	76 - 122
1,1,1-Trichloroethane	30.0	24.8	J	ug/L		83	85 - 122

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

Lab Sample ID: LCS 640-94569/2
Matrix: Water
Analysis Batch: 94569

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	30.0	26.7		ug/L		89	76 - 122
Trichloroethene	30.0	27.5		ug/L		92	82 - 121
Trichlorofluoromethane	30.0	37.9		ug/L		126	84 - 139
1,2,3-Trichloropropane	30.0	24.1		ug/L		80	79 - 128
Vinyl acetate	60.0	86.9		ug/L		145	39 - 185
Vinyl chloride	30.0	54.4	J	ug/L		181	70 - 139
Xylenes, Total	90.0	86.7		ug/L		96	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*108*		*81 - 113*
Toluene-d8 (Surr)	*104*		*87 - 112*

Lab Sample ID: LCSD 640-94569/4
Matrix: Water
Analysis Batch: 94569

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	300	300		ug/L		100	64 - 132	2	28
Acrylonitrile	600	594		ug/L		99	72 - 124	4	40
Benzene	30.0	29.4		ug/L		98	80 - 120	2	20
Bromoform	30.0	20.6		ug/L		69	64 - 132	2	20
Bromomethane	30.0	49.8	J	ug/L		166	37 - 146	1	38
2-Butanone (MEK)	300	245		ug/L		82	66 - 132	5	28
Carbon disulfide	30.0	32.0		ug/L		107	72 - 132	2	23
Carbon tetrachloride	30.0	23.4	J	ug/L		78	79 - 126	2	20
Chlorobenzene	30.0	27.2		ug/L		91	82 - 116	3	20
Chlorobromomethane	30.0	30.2		ug/L		101	72 - 124	3	20
Chlorodibromomethane	30.0	23.8		ug/L		79	73 - 125	2	20
Chloroethane	30.0	57.5	J	ug/L		192	47 - 160	5	35
Chloroform	30.0	28.5		ug/L		95	81 - 120	2	20
Chloromethane	30.0	54.6	J	ug/L		182	61 - 136	2	20
cis-1,2-Dichloroethene	30.0	31.6		ug/L		105	75 - 128	3	20
cis-1,3-Dichloropropene	30.0	26.6		ug/L		89	79 - 120	2	20
1,2-Dibromo-3-Chloropropane	30.0	20.7		ug/L		69	57 - 128	3	25
Dibromomethane	30.0	25.8		ug/L		86	80 - 119	3	20
1,2-Dichlorobenzene	30.0	26.5		ug/L		88	83 - 122	0	20
1,4-Dichlorobenzene	30.0	26.4		ug/L		88	82 - 119	2	20
Dichlorobromomethane	30.0	24.6		ug/L		82	82 - 120	4	20
1,1-Dichloroethane	30.0	32.3		ug/L		108	78 - 124	3	20
1,2-Dichloroethane	30.0	24.4	J	ug/L		81	82 - 123	3	20
1,1-Dichloroethene	30.0	33.0		ug/L		110	72 - 133	3	24
1,2-Dichloropropane	30.0	29.2		ug/L		97	78 - 121	3	20
Ethylbenzene	30.0	28.2		ug/L		94	85 - 119	1	20
Ethylene Dibromide	30.0	24.3		ug/L		81	78 - 120	4	20
2-Hexanone	300	246		ug/L		82	54 - 132	1	32
Iodomethane	30.0	45.4	L	ug/L		151	32 - 169	1	40
Methylene Chloride	30.0	31.4		ug/L		105	75 - 125	5	22
4-Methyl-2-pentanone (MIBK)	300	250		ug/L		83	67 - 134	1	20

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

Lab Sample ID: LCSD 640-94569/4
Matrix: Water
Analysis Batch: 94569

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
Styrene			30.0	28.3		ug/L		94	86 - 121	2	20
1,1,1,2-Tetrachloroethane			30.0	25.4		ug/L		85	80 - 118	1	20
1,1,2,2-Tetrachloroethane			30.0	24.3		ug/L		81	78 - 118	3	20
Tetrachloroethene			30.0	25.9		ug/L		86	81 - 126	1	20
Toluene			30.0	28.0		ug/L		93	82 - 122	2	20
trans-1,4-Dichloro-2-butene			60.0	44.9	J	ug/L		75	76 - 128	0	26
trans-1,2-Dichloroethene			30.0	32.5		ug/L		108	77 - 128	2	22
trans-1,3-Dichloropropene			30.0	25.5		ug/L		85	76 - 122	1	20
1,1,1-Trichloroethane			30.0	24.2	J	ug/L		81	85 - 122	2	20
1,1,2-Trichloroethane			30.0	26.1		ug/L		87	76 - 122	2	20
Trichloroethene			30.0	27.3		ug/L		91	82 - 121	1	20
Trichlorofluoromethane			30.0	37.3		ug/L		124	84 - 139	2	20
1,2,3-Trichloropropane			30.0	22.8	J	ug/L		76	79 - 128	5	20
Vinyl acetate			60.0	79.0		ug/L		132	39 - 185	10	27
Vinyl chloride			30.0	52.7	J	ug/L		176	70 - 139	3	20
Xylenes, Total			90.0	85.2		ug/L		95	86 - 123	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*87 - 114*
Dibromofluoromethane	*108*		*81 - 113*
Toluene-d8 (Surr)	*104*		*87 - 112*

Lab Sample ID: 640-39625-1 MS
Matrix: Water
Analysis Batch: 94569

Client Sample ID: MWB-29(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.8	U	400	364		ug/L		91	61 - 131
Acrylonitrile	3.0	U	800	743		ug/L		93	72 - 123
Benzene	0.13	U	40.0	41.5		ug/L		104	74 - 125
Bromoform	0.18	U	40.0	27.2		ug/L		68	52 - 134
Bromomethane	0.51	U J	40.0	37.6		ug/L		94	10 - 182
2-Butanone (MEK)	2.6	U	400	324		ug/L		81	68 - 120
Carbon disulfide	0.23	U	40.0	35.3		ug/L		88	52 - 170
Carbon tetrachloride	0.18	U J	40.0	26.8	J	ug/L		67	73 - 131
Chlorobenzene	0.13	U	40.0	35.2		ug/L		88	80 - 118
Chlorobromomethane	0.21	U	40.0	37.4		ug/L		93	63 - 129
Chlorodibromomethane	0.15	U	40.0	31.2		ug/L		78	64 - 125
Chloroethane	0.33	U J	40.0	52.4		ug/L		131	29 - 148
Chloroform	0.12	U	40.0	35.7		ug/L		89	78 - 123
Chloromethane	0.18	U J	40.0	51.2		ug/L		128	51 - 142
cis-1,2-Dichloroethene	0.21	U	40.0	38.5		ug/L		96	64 - 134
cis-1,3-Dichloropropene	0.14	U	40.0	32.2		ug/L		81	67 - 112
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	31.5		ug/L		79	52 - 135
Dibromomethane	0.20	U	40.0	33.8		ug/L		84	78 - 118
1,2-Dichlorobenzene	0.14	U	40.0	33.0		ug/L		82	72 - 130
1,4-Dichlorobenzene	0.20	U	40.0	32.7		ug/L		82	76 - 122
Dichlorobromomethane	0.17	U	40.0	32.1		ug/L		80	76 - 119
1,1-Dichloroethane	0.20	U	40.0	39.2		ug/L		98	71 - 135

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

Lab Sample ID: 640-39625-1 MS
Matrix: Water
Analysis Batch: 94569

Client Sample ID: MWB-29(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.15	U J	40.0	33.5		ug/L		84	78 - 127
1,1-Dichloroethene	0.23	U	40.0	39.7		ug/L		99	60 - 151
1,2-Dichloropropane	0.17	U	40.0	37.8		ug/L		94	76 - 118
Ethylbenzene	0.16	U	40.0	34.7		ug/L		87	60 - 132
Ethylene Dibromide	0.15	U	40.0	32.1		ug/L		80	74 - 116
2-Hexanone	1.0	U	400	341		ug/L		85	52 - 127
Iodomethane	0.13	U	40.0	66.8	L J	ug/L		167	10 - 165
Methylene Chloride	0.21	U	40.0	39.9		ug/L		100	71 - 130
4-Methyl-2-pentanone (MIBK)	1.5	U	400	352		ug/L		88	67 - 131
Styrene	0.12	U	40.0	34.3		ug/L		86	74 - 124
1,1,1,2-Tetrachloroethane	0.14	U	40.0	32.2		ug/L		80	70 - 119
1,1,2,2-Tetrachloroethane	0.11	U	40.0	35.0		ug/L		87	74 - 124
Tetrachloroethene	0.19	U	40.0	28.8		ug/L		72	71 - 133
Toluene	0.14	U	40.0	39.0		ug/L		97	49 - 146
trans-1,4-Dichloro-2-butene	0.43	U J	80.0	58.3		ug/L		73	61 - 125
trans-1,2-Dichloroethene	0.26	U	40.0	39.4		ug/L		99	72 - 135
trans-1,3-Dichloropropene	0.14	U	40.0	30.8		ug/L		77	64 - 110
1,1,1-Trichloroethane	0.16	U J	40.0	30.9	J	ug/L		77	85 - 123
1,1,2-Trichloroethane	0.20	U	40.0	34.5		ug/L		86	72 - 120
Trichloroethene	0.16	U	40.0	32.6		ug/L		81	75 - 122
Trichlorofluoromethane	0.21	U	40.0	39.2		ug/L		98	83 - 147
1,2,3-Trichloropropane	0.23	U J	40.0	32.8		ug/L		82	78 - 128
Vinyl acetate	0.38	U	80.0	96.6		ug/L		121	12 - 189
Vinyl chloride	0.22	U J	40.0	49.5		ug/L		124	61 - 148
Xylenes, Total	0.44	U	120	109		ug/L		91	61 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*87 - 114*
Dibromofluoromethane	*107*		*81 - 113*
Toluene-d8 (Surr)	*101*		*87 - 112*

Lab Sample ID: 640-39625-1 MSD
Matrix: Water
Analysis Batch: 94569

Client Sample ID: MWB-29(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
Acetone	2.8	U	400	395		ug/L		99	61 - 131	8	40
Acrylonitrile	3.0	U	800	811		ug/L		101	72 - 123	9	29
Benzene	0.13	U	40.0	42.3		ug/L		106	74 - 125	2	23
Bromoform	0.18	U	40.0	29.2		ug/L		73	52 - 134	7	28
Bromomethane	0.51	U J	40.0	48.2		ug/L		121	10 - 182	25	56
2-Butanone (MEK)	2.6	U	400	365		ug/L		91	68 - 120	12	28
Carbon disulfide	0.23	U	40.0	37.8		ug/L		95	52 - 170	7	31
Carbon tetrachloride	0.18	U J	40.0	27.9	J	ug/L		70	73 - 131	4	20
Chlorobenzene	0.13	U	40.0	36.3		ug/L		91	80 - 118	3	20
Chlorobromomethane	0.21	U	40.0	41.2		ug/L		103	63 - 129	10	24
Chlorodibromomethane	0.15	U	40.0	34.9		ug/L		87	64 - 125	11	22
Chloroethane	0.33	U J	40.0	64.5	J	ug/L		161	29 - 148	21	50
Chloroform	0.12	U	40.0	38.1		ug/L		95	78 - 123	6	22

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

Lab Sample ID: 640-39625-1 MSD
Matrix: Water
Analysis Batch: 94569

Client Sample ID: MWB-29(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
Chloromethane	0.18	U J	40.0	58.3	J	ug/L		146	51 - 142	13	27
cis-1,2-Dichloroethene	0.21	U	40.0	41.5		ug/L		104	64 - 134	7	32
cis-1,3-Dichloropropene	0.14	U	40.0	36.0		ug/L		90	67 - 112	11	23
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	35.9		ug/L		90	52 - 135	13	37
Dibromomethane	0.20	U	40.0	37.5		ug/L		94	78 - 118	10	22
1,2-Dichlorobenzene	0.14	U	40.0	37.2		ug/L		93	72 - 130	12	24
1,4-Dichlorobenzene	0.20	U	40.0	35.4		ug/L		89	76 - 122	8	23
Dichlorobromomethane	0.17	U	40.0	35.4		ug/L		88	76 - 119	10	24
1,1-Dichloroethane	0.20	U	40.0	42.6		ug/L		107	71 - 135	8	22
1,2-Dichloroethane	0.15	U J	40.0	36.7		ug/L		92	78 - 127	9	22
1,1-Dichloroethene	0.23	U	40.0	42.1		ug/L		105	60 - 151	6	31
1,2-Dichloropropane	0.17	U	40.0	42.3		ug/L		106	76 - 118	11	23
Ethylbenzene	0.16	U	40.0	33.6		ug/L		84	60 - 132	3	24
Ethylene Dibromide	0.15	U	40.0	35.9		ug/L		90	74 - 116	11	24
2-Hexanone	1.0	U	400	379		ug/L		95	52 - 127	10	24
Iodomethane	0.13	U	40.0	77.4	L J	ug/L		193	10 - 165	15	60
Methylene Chloride	0.21	U	40.0	43.4		ug/L		109	71 - 130	8	33
4-Methyl-2-pentanone (MIBK)	1.5	U	400	392		ug/L		98	67 - 131	11	23
Styrene	0.12	U	40.0	35.6		ug/L		89	74 - 124	4	23
1,1,1,2-Tetrachloroethane	0.14	U	40.0	34.4		ug/L		86	70 - 119	7	23
1,1,2,2-Tetrachloroethane	0.11	U	40.0	37.7		ug/L		94	74 - 124	8	24
Tetrachloroethene	0.19	U	40.0	29.4		ug/L		74	71 - 133	2	22
Toluene	0.14	U	40.0	37.2		ug/L		93	49 - 146	5	21
trans-1,4-Dichloro-2-butene	0.43	U J	80.0	63.3		ug/L		79	61 - 125	8	50
trans-1,2-Dichloroethene	0.26	U	40.0	40.2		ug/L		101	72 - 135	2	29
trans-1,3-Dichloropropene	0.14	U	40.0	33.0		ug/L		83	64 - 110	7	26
1,1,1-Trichloroethane	0.16	U J	40.0	32.3	J	ug/L		81	85 - 123	4	22
1,1,2-Trichloroethane	0.20	U	40.0	38.6		ug/L		97	72 - 120	11	22
Trichloroethene	0.16	U	40.0	34.0		ug/L		85	75 - 122	4	20
Trichlorofluoromethane	0.21	U	40.0	40.0		ug/L		100	83 - 147	2	28
1,2,3-Trichloropropane	0.23	U J	40.0	37.0		ug/L		93	78 - 128	12	25
Vinyl acetate	0.38	U	80.0	113		ug/L		142	12 - 189	16	60
Vinyl chloride	0.22	U J	40.0	57.8		ug/L		144	61 - 148	15	27
Xylenes, Total	0.44	U	120	105		ug/L		87	61 - 136	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*87 - 114*
Dibromofluoromethane	*108*		*81 - 113*
Toluene-d8 (Surr)	*97*		*87 - 112*

Lab Sample ID: MB 640-94618/5
Matrix: Water
Analysis Batch: 94618

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/30/12 15:34	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/30/12 15:34	1
Benzene	0.13	U	1.0	0.13	ug/L			07/30/12 15:34	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/30/12 15:34	1

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

Lab Sample ID: MB 640-94618/5
Matrix: Water
Analysis Batch: 94618

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.51	U	1.0	0.51	ug/L			07/30/12 15:34	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/30/12 15:34	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/30/12 15:34	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/30/12 15:34	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/30/12 15:34	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/30/12 15:34	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/30/12 15:34	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/30/12 15:34	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/30/12 15:34	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/30/12 15:34	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/30/12 15:34	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/30/12 15:34	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/30/12 15:34	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/30/12 15:34	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/30/12 15:34	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/30/12 15:34	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/30/12 15:34	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/30/12 15:34	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/30/12 15:34	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/30/12 15:34	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/30/12 15:34	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/30/12 15:34	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/30/12 15:34	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/30/12 15:34	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/30/12 15:34	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/30/12 15:34	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/30/12 15:34	1
Styrene	0.12	U	1.0	0.12	ug/L			07/30/12 15:34	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/30/12 15:34	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/30/12 15:34	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/30/12 15:34	1
Toluene	0.14	U	1.0	0.14	ug/L			07/30/12 15:34	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/30/12 15:34	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/30/12 15:34	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/30/12 15:34	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/30/12 15:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/30/12 15:34	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/30/12 15:34	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/30/12 15:34	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/30/12 15:34	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/30/12 15:34	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/30/12 15:34	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/30/12 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*07/30/12 15:34*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*07/30/12 15:34*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*07/30/12 15:34*	*1*

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

Lab Sample ID: LCS 640-94618/3
Matrix: Water
Analysis Batch: 94618

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	225		ug/L		75	64 - 132
Acrylonitrile	600	436		ug/L		73	72 - 124
Benzene	30.0	26.4		ug/L		88	80 - 120
Bromoform	30.0	25.0		ug/L		83	64 - 132
Bromomethane	30.0	38.7		ug/L		129	37 - 146
2-Butanone (MEK)	300	252		ug/L		84	66 - 132
Carbon disulfide	30.0	23.2		ug/L		77	72 - 132
Carbon tetrachloride	30.0	31.4		ug/L		105	79 - 126
Chlorobenzene	30.0	25.8		ug/L		86	82 - 116
Chlorobromomethane	30.0	23.6		ug/L		79	72 - 124
Chlorodibromomethane	30.0	27.7		ug/L		92	73 - 125
Chloroethane	30.0	33.2		ug/L		111	47 - 160
Chloroform	30.0	25.1		ug/L		84	81 - 120
Chloromethane	30.0	33.6		ug/L		112	61 - 136
cis-1,2-Dichloroethene	30.0	23.0		ug/L		77	75 - 128
cis-1,3-Dichloropropene	30.0	28.5		ug/L		95	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	25.3		ug/L		84	57 - 128
Dibromomethane	30.0	27.2		ug/L		91	80 - 119
1,2-Dichlorobenzene	30.0	26.1		ug/L		87	83 - 122
1,4-Dichlorobenzene	30.0	26.4		ug/L		88	82 - 119
Dichlorobromomethane	30.0	29.5		ug/L		98	82 - 120
1,1-Dichloroethane	30.0	25.0		ug/L		83	78 - 124
1,2-Dichloroethane	30.0	31.6		ug/L		105	82 - 123
1,1-Dichloroethene	30.0	25.0		ug/L		83	72 - 133
1,2-Dichloropropane	30.0	25.9		ug/L		86	78 - 121
Ethylbenzene	30.0	27.1		ug/L		90	85 - 119
Ethylene Dibromide	30.0	27.3		ug/L		91	78 - 120
2-Hexanone	300	260		ug/L		87	54 - 132
Iodomethane	30.0	43.1	L	ug/L		144	32 - 169
Methylene Chloride	30.0	23.3		ug/L		78	75 - 125
4-Methyl-2-pentanone (MIBK)	300	251		ug/L		84	67 - 134
Styrene	30.0	27.0		ug/L		90	86 - 121
1,1,1,2-Tetrachloroethane	30.0	27.7		ug/L		92	80 - 118
1,1,2,2-Tetrachloroethane	30.0	25.2		ug/L		84	78 - 118
Tetrachloroethene	30.0	25.8		ug/L		86	81 - 126
Toluene	30.0	26.7		ug/L		89	82 - 122
trans-1,4-Dichloro-2-butene	60.0	57.9		ug/L		96	76 - 128
trans-1,2-Dichloroethene	30.0	23.3		ug/L		78	77 - 128
trans-1,3-Dichloropropene	30.0	29.7		ug/L		99	76 - 122
1,1,1-Trichloroethane	30.0	31.7		ug/L		106	85 - 122
1,1,2-Trichloroethane	30.0	26.8		ug/L		89	76 - 122
Trichloroethene	30.0	28.2		ug/L		94	82 - 121
Trichlorofluoromethane	30.0	35.5		ug/L		118	84 - 139
1,2,3-Trichloropropane	30.0	28.6		ug/L		95	79 - 128
Vinyl acetate	60.0	84.4		ug/L		141	39 - 185
Vinyl chloride	30.0	32.3		ug/L		108	70 - 139
Xylenes, Total	90.0	78.9		ug/L		88	86 - 123

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

Lab Sample ID: LCS 640-94618/3
Matrix: Water
Analysis Batch: 94618

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*87 - 114*
Dibromofluoromethane	*93*		*81 - 113*
Toluene-d8 (Surr)	*102*		*87 - 112*

Lab Sample ID: LCSD 640-94618/4
Matrix: Water
Analysis Batch: 94618

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			300	241		ug/L		80	64 - 132	7	28
Acrylonitrile			600	455		ug/L		76	72 - 124	4	40
Benzene			30.0	26.2		ug/L		87	80 - 120	1	20
Bromoform			30.0	25.7		ug/L		86	64 - 132	3	20
Bromomethane			30.0	43.9		ug/L		146	37 - 146	13	38
2-Butanone (MEK)			300	265		ug/L		88	66 - 132	5	28
Carbon disulfide			30.0	23.1		ug/L		77	72 - 132	1	23
Carbon tetrachloride			30.0	30.6		ug/L		102	79 - 126	3	20
Chlorobenzene			30.0	26.7		ug/L		89	82 - 116	3	20
Chlorobromomethane			30.0	24.1		ug/L		80	72 - 124	2	20
Chlorodibromomethane			30.0	28.9		ug/L		96	73 - 125	4	20
Chloroethane			30.0	36.7		ug/L		122	47 - 160	10	35
Chloroform			30.0	24.2		ug/L		81	81 - 120	3	20
Chloromethane			30.0	36.6		ug/L		122	61 - 136	9	20
cis-1,2-Dichloroethene			30.0	23.3		ug/L		78	75 - 128	1	20
cis-1,3-Dichloropropene			30.0	28.7		ug/L		96	79 - 120	1	20
1,2-Dibromo-3-Chloropropane			30.0	25.9		ug/L		86	57 - 128	2	25
Dibromomethane			30.0	27.9		ug/L		93	80 - 119	3	20
1,2-Dichlorobenzene			30.0	26.6		ug/L		89	83 - 122	2	20
1,4-Dichlorobenzene			30.0	26.6		ug/L		89	82 - 119	1	20
Dichlorobromomethane			30.0	29.4		ug/L		98	82 - 120	0	20
1,1-Dichloroethane			30.0	24.4		ug/L		81	78 - 124	2	20
1,2-Dichloroethane			30.0	31.7		ug/L		106	82 - 123	0	20
1,1-Dichloroethene			30.0	24.9		ug/L		83	72 - 133	0	24
1,2-Dichloropropane			30.0	25.9		ug/L		86	78 - 121	0	20
Ethylbenzene			30.0	27.9		ug/L		93	85 - 119	3	20
Ethylene Dibromide			30.0	27.6		ug/L		92	78 - 120	1	20
2-Hexanone			300	281		ug/L		94	54 - 132	8	32
Iodomethane			30.0	46.2	L	ug/L		154	32 - 169	7	40
Methylene Chloride			30.0	23.2		ug/L		77	75 - 125	1	22
4-Methyl-2-pentanone (MIBK)			300	269		ug/L		90	67 - 134	7	20
Styrene			30.0	27.8		ug/L		93	86 - 121	3	20
1,1,1,2-Tetrachloroethane			30.0	28.2		ug/L		94	80 - 118	2	20
1,1,2,2-Tetrachloroethane			30.0	25.9		ug/L		86	78 - 118	3	20
Tetrachloroethene			30.0	26.7		ug/L		89	81 - 126	4	20
Toluene			30.0	26.6		ug/L		89	82 - 122	1	20
trans-1,4-Dichloro-2-butene			60.0	63.7		ug/L		106	76 - 128	10	26
trans-1,2-Dichloroethene			30.0	23.1		ug/L		77	77 - 128	1	22
trans-1,3-Dichloropropene			30.0	29.7		ug/L		99	76 - 122	0	20
1,1,1-Trichloroethane			30.0	31.3		ug/L		104	85 - 122	1	20

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

Lab Sample ID: LCSD 640-94618/4
Matrix: Water
Analysis Batch: 94618

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			30.0	26.6		ug/L		89	76 - 122	1	20
Trichloroethene			30.0	28.7		ug/L		96	82 - 121	2	20
Trichlorofluoromethane			30.0	37.8		ug/L		126	84 - 139	6	20
1,2,3-Trichloropropane			30.0	29.5		ug/L		98	79 - 128	3	20
Vinyl acetate			60.0	88.5		ug/L		148	39 - 185	5	27
Vinyl chloride			30.0	34.8		ug/L		116	70 - 139	7	20
Xylenes, Total			90.0	81.0		ug/L		90	86 - 123	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*87 - 114*
Dibromofluoromethane	*90*		*81 - 113*
Toluene-d8 (Surr)	*101*		*87 - 112*

Lab Sample ID: MB 640-94641/28
Matrix: Water
Analysis Batch: 94641

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 12:22	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 12:22	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 12:22	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 12:22	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 12:22	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 12:22	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 12:22	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 12:22	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 12:22	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 12:22	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 12:22	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 12:22	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 12:22	1

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

Lab Sample ID: MB 640-94641/28
Matrix: Water
Analysis Batch: 94641

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 12:22	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 12:22	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 12:22	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 12:22	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 12:22	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 12:22	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 12:22	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*07/31/12 12:22*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*07/31/12 12:22*	*1*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/31/12 12:22*	*1*

Lab Sample ID: LCS 640-94641/3
Matrix: Water
Analysis Batch: 94641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	309		ug/L		103	64 - 132
Acrylonitrile	600	597		ug/L		99	72 - 124
Benzene	30.0	29.0		ug/L		97	80 - 120
Bromoform	30.0	31.0		ug/L		103	64 - 132
Bromomethane	30.0	27.1		ug/L		90	37 - 146
2-Butanone (MEK)	300	298		ug/L		99	66 - 132
Carbon disulfide	30.0	35.2		ug/L		117	72 - 132
Carbon tetrachloride	30.0	30.9		ug/L		103	79 - 126
Chlorobenzene	30.0	29.8		ug/L		99	82 - 116
Chlorobromomethane	30.0	29.6		ug/L		99	72 - 124
Chlorodibromomethane	30.0	32.0		ug/L		107	73 - 125
Chloroethane	30.0	41.6		ug/L		139	47 - 160
Chloroform	30.0	29.0		ug/L		97	81 - 120
Chloromethane	30.0	24.4		ug/L		81	61 - 136
cis-1,2-Dichloroethene	30.0	30.0		ug/L		100	75 - 128
cis-1,3-Dichloropropene	30.0	31.7		ug/L		106	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	31.6		ug/L		105	57 - 128
Dibromomethane	30.0	29.0		ug/L		97	80 - 119
1,2-Dichlorobenzene	30.0	28.9		ug/L		96	83 - 122
1,4-Dichlorobenzene	30.0	28.9		ug/L		96	82 - 119
Dichlorobromomethane	30.0	30.0		ug/L		100	82 - 120
1,1-Dichloroethane	30.0	30.1		ug/L		100	78 - 124

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

Lab Sample ID: LCS 640-94641/3
Matrix: Water
Analysis Batch: 94641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	30.0	28.0		ug/L		93	82 - 123
1,1-Dichloroethene	30.0	31.6		ug/L		105	72 - 133
1,2-Dichloropropane	30.0	29.2		ug/L		97	78 - 121
Ethylbenzene	30.0	30.8		ug/L		103	85 - 119
Ethylene Dibromide	30.0	29.2		ug/L		97	78 - 120
2-Hexanone	300	317		ug/L		106	54 - 132
Iodomethane	30.0	30.4	L	ug/L		101	32 - 169
Methylene Chloride	30.0	29.8		ug/L		99	75 - 125
4-Methyl-2-pentanone (MIBK)	300	318		ug/L		106	67 - 134
Styrene	30.0	32.3		ug/L		108	86 - 121
1,1,1,2-Tetrachloroethane	30.0	31.9		ug/L		106	80 - 118
1,1,2,2-Tetrachloroethane	30.0	28.9		ug/L		96	78 - 118
Tetrachloroethene	30.0	31.3		ug/L		104	81 - 126
Toluene	30.0	29.3		ug/L		98	82 - 122
trans-1,4-Dichloro-2-butene	60.0	59.9		ug/L		100	76 - 128
trans-1,2-Dichloroethene	30.0	30.7		ug/L		102	77 - 128
trans-1,3-Dichloropropene	30.0	32.0		ug/L		107	76 - 122
1,1,1-Trichloroethane	30.0	30.9		ug/L		103	85 - 122
1,1,2-Trichloroethane	30.0	29.8		ug/L		99	76 - 122
Trichloroethene	30.0	29.5		ug/L		98	82 - 121
Trichlorofluoromethane	30.0	28.0		ug/L		93	84 - 139
1,2,3-Trichloropropane	30.0	30.1		ug/L		100	79 - 128
Vinyl acetate	60.0	61.5		ug/L		102	39 - 185
Vinyl chloride	30.0	26.7		ug/L		89	70 - 139
Xylenes, Total	90.0	92.7		ug/L		103	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*87 - 114*
Dibromofluoromethane	*99*		*81 - 113*
Toluene-d8 (Surr)	*99*		*87 - 112*

Lab Sample ID: LCSD 640-94641/4
Matrix: Water
Analysis Batch: 94641

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	300	304		ug/L		101	64 - 132	2	28
Acrylonitrile	600	590		ug/L		98	72 - 124	1	40
Benzene	30.0	28.9		ug/L		96	80 - 120	0	20
Bromoform	30.0	30.7		ug/L		102	64 - 132	1	20
Bromomethane	30.0	35.4	L	ug/L		118	37 - 146	27	38
2-Butanone (MEK)	300	300		ug/L		100	66 - 132	1	28
Carbon disulfide	30.0	34.7		ug/L		116	72 - 132	1	23
Carbon tetrachloride	30.0	30.5		ug/L		102	79 - 126	2	20
Chlorobenzene	30.0	29.1		ug/L		97	82 - 116	2	20
Chlorobromomethane	30.0	30.7		ug/L		102	72 - 124	4	20
Chlorodibromomethane	30.0	31.9		ug/L		106	73 - 125	0	20
Chloroethane	30.0	36.5		ug/L		122	47 - 160	13	35
Chloroform	30.0	29.2		ug/L		97	81 - 120	1	20

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

Lab Sample ID: LCSD 640-94641/4
Matrix: Water
Analysis Batch: 94641

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
Chloromethane			30.0	25.6		ug/L		85	61 - 136	5	20
cis-1,2-Dichloroethene			30.0	30.1		ug/L		100	75 - 128	0	20
cis-1,3-Dichloropropene			30.0	32.0		ug/L		107	79 - 120	1	20
1,2-Dibromo-3-Chloropropane			30.0	30.2		ug/L		101	57 - 128	4	25
Dibromomethane			30.0	29.6		ug/L		99	80 - 119	2	20
1,2-Dichlorobenzene			30.0	29.6		ug/L		99	83 - 122	2	20
1,4-Dichlorobenzene			30.0	29.6		ug/L		99	82 - 119	2	20
Dichlorobromomethane			30.0	29.9		ug/L		100	82 - 120	0	20
1,1-Dichloroethane			30.0	31.0		ug/L		103	78 - 124	3	20
1,2-Dichloroethane			30.0	28.6		ug/L		95	82 - 123	2	20
1,1-Dichloroethene			30.0	32.1		ug/L		107	72 - 133	2	24
1,2-Dichloropropane			30.0	28.9		ug/L		96	78 - 121	1	20
Ethylbenzene			30.0	30.1		ug/L		100	85 - 119	2	20
Ethylene Dibromide			30.0	29.9		ug/L		100	78 - 120	2	20
2-Hexanone			300	303		ug/L		101	54 - 132	4	32
Iodomethane			30.0	31.6	L	ug/L		105	32 - 169	4	40
Methylene Chloride			30.0	30.2		ug/L		101	75 - 125	1	22
4-Methyl-2-pentanone (MIBK)			300	305		ug/L		102	67 - 134	4	20
Styrene			30.0	31.6		ug/L		105	86 - 121	2	20
1,1,1,2-Tetrachloroethane			30.0	31.7		ug/L		106	80 - 118	1	20
1,1,2,2-Tetrachloroethane			30.0	28.2		ug/L		94	78 - 118	3	20
Tetrachloroethene			30.0	30.2		ug/L		101	81 - 126	3	20
Toluene			30.0	29.6		ug/L		99	82 - 122	1	20
trans-1,4-Dichloro-2-butene			60.0	55.9		ug/L		93	76 - 128	7	26
trans-1,2-Dichloroethene			30.0	31.5		ug/L		105	77 - 128	2	22
trans-1,3-Dichloropropene			30.0	31.7		ug/L		106	76 - 122	1	20
1,1,1-Trichloroethane			30.0	30.4		ug/L		101	85 - 122	1	20
1,1,2-Trichloroethane			30.0	29.5		ug/L		98	76 - 122	1	20
Trichloroethene			30.0	28.8		ug/L		96	82 - 121	3	20
Trichlorofluoromethane			30.0	28.0		ug/L		93	84 - 139	0	20
1,2,3-Trichloropropane			30.0	30.1		ug/L		100	79 - 128	0	20
Vinyl acetate			60.0	61.4		ug/L		102	39 - 185	0	27
Vinyl chloride			30.0	27.3		ug/L		91	70 - 139	2	20
Xylenes, Total			90.0	91.1		ug/L		101	86 - 123	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*100*		*81 - 113*
Toluene-d8 (Surr)	*100*		*87 - 112*

Lab Sample ID: MB 640-94650/5
Matrix: Water
Analysis Batch: 94650

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/27/12 13:55	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/27/12 13:55	1
Benzene	0.13	U	1.0	0.13	ug/L			07/27/12 13:55	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/27/12 13:55	1

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

Lab Sample ID: MB 640-94650/5
Matrix: Water
Analysis Batch: 94650

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.51	U	1.0	0.51	ug/L			07/27/12 13:55	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/27/12 13:55	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/27/12 13:55	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/27/12 13:55	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/27/12 13:55	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/27/12 13:55	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/27/12 13:55	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/27/12 13:55	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/27/12 13:55	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/27/12 13:55	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/27/12 13:55	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 13:55	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/27/12 13:55	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/27/12 13:55	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/27/12 13:55	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/27/12 13:55	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/27/12 13:55	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 13:55	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/27/12 13:55	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/27/12 13:55	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/27/12 13:55	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/27/12 13:55	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/27/12 13:55	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/27/12 13:55	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/27/12 13:55	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/27/12 13:55	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/27/12 13:55	1
Styrene	0.12	U	1.0	0.12	ug/L			07/27/12 13:55	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/27/12 13:55	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/27/12 13:55	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/27/12 13:55	1
Toluene	0.14	U	1.0	0.14	ug/L			07/27/12 13:55	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/27/12 13:55	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/27/12 13:55	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/27/12 13:55	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/27/12 13:55	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/27/12 13:55	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/27/12 13:55	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/27/12 13:55	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/27/12 13:55	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/27/12 13:55	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/27/12 13:55	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/27/12 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*07/27/12 13:55*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*07/27/12 13:55*	*1*
Toluene-d8 (Surr)	*102*		*87 - 112*		*07/27/12 13:55*	*1*

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

Lab Sample ID: LCS 640-94650/2
Matrix: Water
Analysis Batch: 94650

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	346		ug/L		115	64 - 132
Acrylonitrile	600	700		ug/L		117	72 - 124
Benzene	30.0	33.3		ug/L		111	80 - 120
Bromoform	30.0	24.3		ug/L		81	64 - 132
Bromomethane	30.0	44.4	J	ug/L		148	37 - 146
2-Butanone (MEK)	300	309		ug/L		103	66 - 132
Carbon disulfide	30.0	36.0		ug/L		120	72 - 132
Carbon tetrachloride	30.0	27.2		ug/L		91	79 - 126
Chlorobenzene	30.0	31.3		ug/L		104	82 - 116
Chlorobromomethane	30.0	33.2		ug/L		111	72 - 124
Chlorodibromomethane	30.0	27.9		ug/L		93	73 - 125
Chloroethane	30.0	53.8	J	ug/L		179	47 - 160
Chloroform	30.0	31.4		ug/L		105	81 - 120
Chloromethane	30.0	53.9	J	ug/L		180	61 - 136
cis-1,2-Dichloroethene	30.0	35.0		ug/L		117	75 - 128
cis-1,3-Dichloropropene	30.0	31.7		ug/L		106	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	24.6		ug/L		82	57 - 128
Dibromomethane	30.0	30.3		ug/L		101	80 - 119
1,2-Dichlorobenzene	30.0	29.2		ug/L		97	83 - 122
1,4-Dichlorobenzene	30.0	29.1		ug/L		97	82 - 119
Dichlorobromomethane	30.0	28.9		ug/L		96	82 - 120
1,1-Dichloroethane	30.0	35.6		ug/L		119	78 - 124
1,2-Dichloroethane	30.0	28.8		ug/L		96	82 - 123
1,1-Dichloroethene	30.0	37.4		ug/L		125	72 - 133
1,2-Dichloropropane	30.0	33.9		ug/L		113	78 - 121
Ethylbenzene	30.0	32.0		ug/L		107	85 - 119
Ethylene Dibromide	30.0	29.4		ug/L		98	78 - 120
2-Hexanone	300	307		ug/L		102	54 - 132
Iodomethane	30.0	47.8	L	ug/L		159	32 - 169
Methylene Chloride	30.0	35.4		ug/L		118	75 - 125
4-Methyl-2-pentanone (MIBK)	300	306		ug/L		102	67 - 134
Styrene	30.0	31.7		ug/L		106	86 - 121
1,1,1,2-Tetrachloroethane	30.0	28.8		ug/L		96	80 - 118
1,1,2,2-Tetrachloroethane	30.0	29.9		ug/L		100	78 - 118
Tetrachloroethene	30.0	29.7		ug/L		99	81 - 126
Toluene	30.0	31.5		ug/L		105	82 - 122
trans-1,4-Dichloro-2-butene	60.0	56.4		ug/L		94	76 - 128
trans-1,2-Dichloroethene	30.0	35.5		ug/L		118	77 - 128
trans-1,3-Dichloropropene	30.0	30.3		ug/L		101	76 - 122
1,1,1-Trichloroethane	30.0	28.2		ug/L		94	85 - 122
1,1,2-Trichloroethane	30.0	30.7		ug/L		102	76 - 122
Trichloroethene	30.0	30.8		ug/L		103	82 - 121
Trichlorofluoromethane	30.0	41.8		ug/L		139	84 - 139
1,2,3-Trichloropropane	30.0	28.9		ug/L		96	79 - 128
Vinyl acetate	60.0	98.8		ug/L		165	39 - 185
Vinyl chloride	30.0	54.3	J	ug/L		181	70 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*87 - 114*

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

Lab Sample ID: LCS 640-94650/2
Matrix: Water
Analysis Batch: 94650

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*103*		*81 - 113*
Toluene-d8 (Surr)	*104*		*87 - 112*

Lab Sample ID: LCSD 640-94650/4
Matrix: Water
Analysis Batch: 94650

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			300	307		ug/L		102	64 - 132	12	28
Acrylonitrile			600	632		ug/L		105	72 - 124	10	40
Benzene			30.0	30.5		ug/L		102	80 - 120	9	20
Bromoform			30.0	22.1		ug/L		74	64 - 132	9	20
Bromomethane			30.0	46.7	J	ug/L		156	37 - 146	5	38
2-Butanone (MEK)			300	282		ug/L		94	66 - 132	9	28
Carbon disulfide			30.0	32.3		ug/L		108	72 - 132	11	23
Carbon tetrachloride			30.0	25.0		ug/L		83	79 - 126	8	20
Chlorobenzene			30.0	27.5		ug/L		92	82 - 116	13	20
Chlorobromomethane			30.0	29.5		ug/L		98	72 - 124	12	20
Chlorodibromomethane			30.0	24.8		ug/L		83	73 - 125	12	20
Chloroethane			30.0	49.2	J	ug/L		164	47 - 160	9	35
Chloroform			30.0	28.5		ug/L		95	81 - 120	10	20
Chloromethane			30.0	51.0	J	ug/L		170	61 - 136	6	20
cis-1,2-Dichloroethene			30.0	30.7		ug/L		102	75 - 128	13	20
cis-1,3-Dichloropropene			30.0	28.5		ug/L		95	79 - 120	11	20
1,2-Dibromo-3-Chloropropane			30.0	24.2		ug/L		81	57 - 128	1	25
Dibromomethane			30.0	27.7		ug/L		92	80 - 119	9	20
1,2-Dichlorobenzene			30.0	27.0		ug/L		90	83 - 122	8	20
1,4-Dichlorobenzene			30.0	26.9		ug/L		90	82 - 119	8	20
Dichlorobromomethane			30.0	26.6		ug/L		89	82 - 120	8	20
1,1-Dichloroethane			30.0	31.4		ug/L		105	78 - 124	12	20
1,2-Dichloroethane			30.0	26.1		ug/L		87	82 - 123	10	20
1,1-Dichloroethene			30.0	33.2		ug/L		111	72 - 133	12	24
1,2-Dichloropropane			30.0	30.3		ug/L		101	78 - 121	11	20
Ethylbenzene			30.0	28.3		ug/L		94	85 - 119	12	20
Ethylene Dibromide			30.0	26.8		ug/L		89	78 - 120	9	20
2-Hexanone			300	283		ug/L		94	54 - 132	8	32
Iodomethane			30.0	47.2	L	ug/L		157	32 - 169	1	40
Methylene Chloride			30.0	31.6		ug/L		105	75 - 125	11	22
4-Methyl-2-pentanone (MIBK)			300	281		ug/L		94	67 - 134	8	20
Styrene			30.0	28.9		ug/L		96	86 - 121	9	20
1,1,1,2-Tetrachloroethane			30.0	25.8		ug/L		86	80 - 118	11	20
1,1,2,2-Tetrachloroethane			30.0	27.1		ug/L		90	78 - 118	10	20
Tetrachloroethene			30.0	26.4		ug/L		88	81 - 126	12	20
Toluene			30.0	29.5		ug/L		98	82 - 122	7	20
trans-1,4-Dichloro-2-butene			60.0	51.4		ug/L		86	76 - 128	9	26
trans-1,2-Dichloroethene			30.0	31.6		ug/L		105	77 - 128	12	22
trans-1,3-Dichloropropene			30.0	28.2		ug/L		94	76 - 122	7	20
1,1,1-Trichloroethane			30.0	25.7		ug/L		86	85 - 122	10	20
1,1,2-Trichloroethane			30.0	28.3		ug/L		94	76 - 122	8	20

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

Lab Sample ID: LCSD 640-94650/4
Matrix: Water
Analysis Batch: 94650

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
Trichloroethene			30.0	27.9		ug/L		93	82 - 121	10	20
Trichlorofluoromethane			30.0	40.4		ug/L		135	84 - 139	3	20
1,2,3-Trichloropropane			30.0	25.4		ug/L		85	79 - 128	13	20
Vinyl acetate			60.0	96.4		ug/L		161	39 - 185	2	27
Vinyl chloride			30.0	52.0	J	ug/L		173	70 - 139	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*87 - 114*
Dibromofluoromethane	*104*		*81 - 113*
Toluene-d8 (Surr)	*105*		*87 - 112*

Lab Sample ID: MB 640-94651/4
Matrix: Water
Analysis Batch: 94651

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/28/12 15:34	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/28/12 15:34	1
Benzene	0.13	U	1.0	0.13	ug/L			07/28/12 15:34	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/28/12 15:34	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/28/12 15:34	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/28/12 15:34	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/28/12 15:34	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/28/12 15:34	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/28/12 15:34	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/28/12 15:34	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/28/12 15:34	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/28/12 15:34	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/28/12 15:34	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/28/12 15:34	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/28/12 15:34	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 15:34	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/28/12 15:34	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/28/12 15:34	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/28/12 15:34	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/28/12 15:34	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/28/12 15:34	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 15:34	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/28/12 15:34	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/28/12 15:34	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/28/12 15:34	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/28/12 15:34	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/28/12 15:34	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/28/12 15:34	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/28/12 15:34	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/28/12 15:34	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/28/12 15:34	1
Styrene	0.12	U	1.0	0.12	ug/L			07/28/12 15:34	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/28/12 15:34	1

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

Lab Sample ID: MB 640-94651/4
Matrix: Water
Analysis Batch: 94651

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/28/12 15:34	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/28/12 15:34	1
Toluene	0.14	U	1.0	0.14	ug/L			07/28/12 15:34	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/28/12 15:34	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/28/12 15:34	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/28/12 15:34	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/28/12 15:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/28/12 15:34	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/28/12 15:34	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/28/12 15:34	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/28/12 15:34	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/28/12 15:34	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/28/12 15:34	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/28/12 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*87 - 114*		*07/28/12 15:34*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*07/28/12 15:34*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*07/28/12 15:34*	*1*

Lab Sample ID: LCS 640-94651/1
Matrix: Water
Analysis Batch: 94651

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	265		ug/L		88	64 - 132
Acrylonitrile	600	480		ug/L		80	72 - 124
Benzene	30.0	27.6		ug/L		92	80 - 120
Bromoform	30.0	27.1		ug/L		90	64 - 132
Bromomethane	30.0	25.4		ug/L		85	37 - 146
2-Butanone (MEK)	300	279		ug/L		93	66 - 132
Carbon disulfide	30.0	24.0		ug/L		80	72 - 132
Carbon tetrachloride	30.0	31.3		ug/L		104	79 - 126
Chlorobenzene	30.0	27.8		ug/L		93	82 - 116
Chlorobromomethane	30.0	24.2		ug/L		81	72 - 124
Chlorodibromomethane	30.0	29.9		ug/L		100	73 - 125
Chloroethane	30.0	31.5		ug/L		105	47 - 160
Chloroform	30.0	25.4		ug/L		85	81 - 120
Chloromethane	30.0	32.3		ug/L		108	61 - 136
cis-1,2-Dichloroethene	30.0	24.4		ug/L		81	75 - 128
cis-1,3-Dichloropropene	30.0	26.6		ug/L		89	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	29.4		ug/L		98	57 - 128
Dibromomethane	30.0	29.1		ug/L		97	80 - 119
1,2-Dichlorobenzene	30.0	28.0		ug/L		93	83 - 122
1,4-Dichlorobenzene	30.0	27.3		ug/L		91	82 - 119
Dichlorobromomethane	30.0	30.5		ug/L		102	82 - 120
1,1-Dichloroethane	30.0	25.4		ug/L		85	78 - 124
1,2-Dichloroethane	30.0	32.0		ug/L		107	82 - 123
1,1-Dichloroethene	30.0	25.9		ug/L		86	72 - 133

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

Lab Sample ID: LCS 640-94651/1
Matrix: Water
Analysis Batch: 94651

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	30.0	26.9		ug/L		90	78 - 121
Ethylbenzene	30.0	28.2		ug/L		94	85 - 119
Ethylene Dibromide	30.0	29.2		ug/L		97	78 - 120
2-Hexanone	300	307		ug/L		102	54 - 132
Iodomethane	30.0	29.2		ug/L		97	32 - 169
Methylene Chloride	30.0	24.5		ug/L		82	75 - 125
4-Methyl-2-pentanone (MIBK)	300	289		ug/L		96	67 - 134
Styrene	30.0	29.0		ug/L		97	86 - 121
1,1,1,2-Tetrachloroethane	30.0	29.1		ug/L		97	80 - 118
1,1,2,2-Tetrachloroethane	30.0	27.3		ug/L		91	78 - 118
Tetrachloroethene	30.0	27.8		ug/L		93	81 - 126
Toluene	30.0	27.7		ug/L		92	82 - 122
trans-1,4-Dichloro-2-butene	60.0	54.9		ug/L		91	76 - 128
trans-1,2-Dichloroethene	30.0	24.4		ug/L		81	77 - 128
trans-1,3-Dichloropropene	30.0	28.0		ug/L		93	76 - 122
1,1,1-Trichloroethane	30.0	31.7		ug/L		106	85 - 122
1,1,2-Trichloroethane	30.0	28.1		ug/L		94	76 - 122
Trichloroethene	30.0	29.8		ug/L		99	82 - 121
Trichlorofluoromethane	30.0	34.7		ug/L		116	84 - 139
1,2,3-Trichloropropane	30.0	31.0		ug/L		103	79 - 128
Vinyl acetate	60.0	66.7		ug/L		111	39 - 185
Vinyl chloride	30.0	32.5		ug/L		108	70 - 139
Xylenes, Total	90.0	83.6		ug/L		93	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*87 - 114*
Dibromofluoromethane	*91*		*81 - 113*
Toluene-d8 (Surr)	*102*		*87 - 112*

Lab Sample ID: LCSD 640-94651/3
Matrix: Water
Analysis Batch: 94651

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	300	261		ug/L		87	64 - 132	1	28
Acrylonitrile	600	481		ug/L		80	72 - 124	0	40
Benzene	30.0	27.4		ug/L		91	80 - 120	1	20
Bromoform	30.0	26.2		ug/L		87	64 - 132	3	20
Bromomethane	30.0	27.0		ug/L		90	37 - 146	6	38
2-Butanone (MEK)	300	282		ug/L		94	66 - 132	1	28
Carbon disulfide	30.0	23.7		ug/L		79	72 - 132	1	23
Carbon tetrachloride	30.0	31.1		ug/L		104	79 - 126	0	20
Chlorobenzene	30.0	27.1		ug/L		90	82 - 116	2	20
Chlorobromomethane	30.0	24.2		ug/L		81	72 - 124	0	20
Chlorodibromomethane	30.0	29.6		ug/L		99	73 - 125	1	20
Chloroethane	30.0	31.0		ug/L		103	47 - 160	2	35
Chloroform	30.0	24.9		ug/L		83	81 - 120	2	20
Chloromethane	30.0	31.5		ug/L		105	61 - 136	2	20
cis-1,2-Dichloroethene	30.0	23.9		ug/L		80	75 - 128	2	20

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

Lab Sample ID: LCSD 640-94651/3
Matrix: Water
Analysis Batch: 94651

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
cis-1,3-Dichloropropene			30.0	27.2		ug/L		91	79 - 120	2	20
1,2-Dibromo-3-Chloropropane			30.0	27.7		ug/L		92	57 - 128	6	25
Dibromomethane			30.0	29.2		ug/L		97	80 - 119	0	20
1,2-Dichlorobenzene			30.0	27.5		ug/L		92	83 - 122	2	20
1,4-Dichlorobenzene			30.0	27.1		ug/L		90	82 - 119	1	20
Dichlorobromomethane			30.0	29.7		ug/L		99	82 - 120	3	20
1,1-Dichloroethane			30.0	25.5		ug/L		85	78 - 124	0	20
1,2-Dichloroethane			30.0	31.2		ug/L		104	82 - 123	3	20
1,1-Dichloroethene			30.0	25.9		ug/L		86	72 - 133	0	24
1,2-Dichloropropane			30.0	26.0		ug/L		87	78 - 121	3	20
Ethylbenzene			30.0	28.1		ug/L		94	85 - 119	0	20
Ethylene Dibromide			30.0	29.4		ug/L		98	78 - 120	1	20
2-Hexanone			300	297		ug/L		99	54 - 132	3	32
Iodomethane			30.0	30.7	L	ug/L		102	32 - 169	5	40
Methylene Chloride			30.0	24.0		ug/L		80	75 - 125	2	22
4-Methyl-2-pentanone (MIBK)			300	283		ug/L		94	67 - 134	2	20
Styrene			30.0	28.1		ug/L		94	86 - 121	3	20
1,1,1,2-Tetrachloroethane			30.0	29.2		ug/L		97	80 - 118	0	20
1,1,2,2-Tetrachloroethane			30.0	26.2		ug/L		87	78 - 118	4	20
Tetrachloroethene			30.0	27.2		ug/L		91	81 - 126	2	20
Toluene			30.0	27.0		ug/L		90	82 - 122	2	20
trans-1,4-Dichloro-2-butene			60.0	52.7		ug/L		88	76 - 128	4	26
trans-1,2-Dichloroethene			30.0	24.3		ug/L		81	77 - 128	0	22
trans-1,3-Dichloropropene			30.0	28.2		ug/L		94	76 - 122	1	20
1,1,1-Trichloroethane			30.0	30.9		ug/L		103	85 - 122	2	20
1,1,2-Trichloroethane			30.0	28.0		ug/L		93	76 - 122	0	20
Trichloroethene			30.0	30.1		ug/L		100	82 - 121	1	20
Trichlorofluoromethane			30.0	35.6		ug/L		119	84 - 139	2	20
1,2,3-Trichloropropane			30.0	29.6		ug/L		99	79 - 128	5	20
Vinyl acetate			60.0	48.0	J	ug/L		80	39 - 185	33	27
Vinyl chloride			30.0	32.6		ug/L		109	70 - 139	0	20
Xylenes, Total			90.0	82.3		ug/L		91	86 - 123	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*87 - 114*
Dibromofluoromethane	*93*		*81 - 113*
Toluene-d8 (Surr)	*103*		*87 - 112*

Lab Sample ID: MB 640-94681/4
Matrix: Water
Analysis Batch: 94681

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 23:33	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 23:33	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 23:33	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 23:33	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 23:33	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 23:33	1

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

Lab Sample ID: MB 640-94681/4
Matrix: Water
Analysis Batch: 94681

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 23:33	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 23:33	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 23:33	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 23:33	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 23:33	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 23:33	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 23:33	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 23:33	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 23:33	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 23:33	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			07/31/12 23:33	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 23:33	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			07/31/12 23:33	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			07/31/12 23:33	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 23:33	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 23:33	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 23:33	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 23:33	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 23:33	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 23:33	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			07/31/12 23:33	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 23:33	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 23:33	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 23:33	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 23:33	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 23:33	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 23:33	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 23:33	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 23:33	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 23:33	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 23:33	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 23:33	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 23:33	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 23:33	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 23:33	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 23:33	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 23:33	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 23:33	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 23:33	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 23:33	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 23:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*07/31/12 23:33*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*07/31/12 23:33*	*1*
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/31/12 23:33*	*1*

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

Lab Sample ID: LCS 640-94681/26
Matrix: Water
Analysis Batch: 94681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	321		ug/L		107	64 - 132
Acrylonitrile	600	618		ug/L		103	72 - 124
Benzene	30.0	30.9		ug/L		103	80 - 120
Bromoform	30.0	30.3		ug/L		101	64 - 132
Bromomethane	30.0	26.9		ug/L		90	37 - 146
2-Butanone (MEK)	300	315		ug/L		105	66 - 132
Carbon disulfide	30.0	33.3		ug/L		111	72 - 132
Carbon tetrachloride	30.0	32.8		ug/L		109	79 - 126
Chlorobenzene	30.0	30.4		ug/L		101	82 - 116
Chlorobromomethane	30.0	32.0		ug/L		107	72 - 124
Chlorodibromomethane	30.0	32.6		ug/L		109	73 - 125
Chloroethane	30.0	27.4		ug/L		91	47 - 160
Chloroform	30.0	31.1		ug/L		104	81 - 120
Chloromethane	30.0	24.5		ug/L		82	61 - 136
cis-1,2-Dichloroethene	30.0	32.5		ug/L		108	75 - 128
cis-1,3-Dichloropropene	30.0	32.4		ug/L		108	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	31.2		ug/L		104	57 - 128
Dibromomethane	30.0	31.7		ug/L		106	80 - 119
1,2-Dichlorobenzene	30.0	30.7		ug/L		102	83 - 122
1,4-Dichlorobenzene	30.0	31.4		ug/L		105	82 - 119
Dichlorobromomethane	30.0	31.5		ug/L		105	82 - 120
1,1-Dichloroethane	30.0	32.1		ug/L		107	78 - 124
1,2-Dichloroethane	30.0	30.1		ug/L		100	82 - 123
1,1-Dichloroethene	30.0	33.1		ug/L		110	72 - 133
1,2-Dichloropropane	30.0	31.1		ug/L		104	78 - 121
Ethylbenzene	30.0	31.7		ug/L		106	85 - 119
Ethylene Dibromide	30.0	31.5		ug/L		105	78 - 120
2-Hexanone	300	319		ug/L		106	54 - 132
Iodomethane	30.0	21.0		ug/L		70	32 - 169
Methylene Chloride	30.0	31.7		ug/L		106	75 - 125
4-Methyl-2-pentanone (MIBK)	300	319		ug/L		106	67 - 134
Styrene	30.0	33.5		ug/L		112	86 - 121
1,1,1,2-Tetrachloroethane	30.0	32.8		ug/L		109	80 - 118
1,1,2,2-Tetrachloroethane	30.0	31.3		ug/L		104	78 - 118
Tetrachloroethene	30.0	31.2		ug/L		104	81 - 126
Toluene	30.0	31.8		ug/L		106	82 - 122
trans-1,4-Dichloro-2-butene	60.0	66.7		ug/L		111	76 - 128
trans-1,2-Dichloroethene	30.0	33.2		ug/L		111	77 - 128
trans-1,3-Dichloropropene	30.0	32.6		ug/L		109	76 - 122
1,1,1-Trichloroethane	30.0	31.9		ug/L		106	85 - 122
1,1,2-Trichloroethane	30.0	31.3		ug/L		104	76 - 122
Trichloroethene	30.0	31.9		ug/L		106	82 - 121
Trichlorofluoromethane	30.0	27.8		ug/L		93	84 - 139
1,2,3-Trichloropropane	30.0	32.0		ug/L		107	79 - 128
Vinyl acetate	60.0	60.9		ug/L		101	39 - 185
Vinyl chloride	30.0	25.8		ug/L		86	70 - 139
Xylenes, Total	90.0	96.8		ug/L		108	86 - 123

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

Lab Sample ID: LCS 640-94681/26
Matrix: Water
Analysis Batch: 94681

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*99*		*81 - 113*
Toluene-d8 (Surr)	*98*		*87 - 112*

Lab Sample ID: LCSD 640-94681/3
Matrix: Water
Analysis Batch: 94681

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			300	338		ug/L		113	64 - 132	5	28
Acrylonitrile			600	631		ug/L		105	72 - 124	2	40
Benzene			30.0	31.1		ug/L		104	80 - 120	0	20
Bromoform			30.0	30.7		ug/L		102	64 - 132	1	20
Bromomethane			30.0	30.7	L	ug/L		102	37 - 146	13	38
2-Butanone (MEK)			300	321		ug/L		107	66 - 132	2	28
Carbon disulfide			30.0	32.7		ug/L		109	72 - 132	2	23
Carbon tetrachloride			30.0	32.0		ug/L		107	79 - 126	2	20
Chlorobenzene			30.0	30.1		ug/L		100	82 - 116	1	20
Chlorobromomethane			30.0	32.1		ug/L		107	72 - 124	0	20
Chlorodibromomethane			30.0	31.1		ug/L		104	73 - 125	5	20
Chloroethane			30.0	30.8		ug/L		103	47 - 160	11	35
Chloroform			30.0	31.1		ug/L		104	81 - 120	0	20
Chloromethane			30.0	25.2		ug/L		84	61 - 136	3	20
cis-1,2-Dichloroethene			30.0	32.2		ug/L		107	75 - 128	1	20
cis-1,3-Dichloropropene			30.0	32.5		ug/L		108	79 - 120	0	20
1,2-Dibromo-3-Chloropropane			30.0	33.2		ug/L		111	57 - 128	6	25
Dibromomethane			30.0	31.7		ug/L		106	80 - 119	0	20
1,2-Dichlorobenzene			30.0	31.6		ug/L		105	83 - 122	3	20
1,4-Dichlorobenzene			30.0	30.8		ug/L		103	82 - 119	2	20
Dichlorobromomethane			30.0	31.8		ug/L		106	82 - 120	1	20
1,1-Dichloroethane			30.0	31.9		ug/L		106	78 - 124	1	20
1,2-Dichloroethane			30.0	30.6		ug/L		102	82 - 123	1	20
1,1-Dichloroethene			30.0	33.7		ug/L		112	72 - 133	2	24
1,2-Dichloropropane			30.0	31.2		ug/L		104	78 - 121	0	20
Ethylbenzene			30.0	31.5		ug/L		105	85 - 119	0	20
Ethylene Dibromide			30.0	31.7		ug/L		106	78 - 120	1	20
2-Hexanone			300	314		ug/L		105	54 - 132	1	32
Iodomethane			30.0	22.2		ug/L		74	32 - 169	6	40
Methylene Chloride			30.0	31.8		ug/L		106	75 - 125	0	22
4-Methyl-2-pentanone (MIBK)			300	321		ug/L		107	67 - 134	1	20
Styrene			30.0	33.2		ug/L		111	86 - 121	1	20
1,1,1,2-Tetrachloroethane			30.0	32.3		ug/L		108	80 - 118	2	20
1,1,2,2-Tetrachloroethane			30.0	29.7		ug/L		99	78 - 118	5	20
Tetrachloroethene			30.0	31.3		ug/L		104	81 - 126	0	20
Toluene			30.0	31.2		ug/L		104	82 - 122	2	20
trans-1,4-Dichloro-2-butene			60.0	68.1		ug/L		113	76 - 128	2	26
trans-1,2-Dichloroethene			30.0	32.4		ug/L		108	77 - 128	3	22
trans-1,3-Dichloropropene			30.0	32.4		ug/L		108	76 - 122	1	20
1,1,1-Trichloroethane			30.0	32.1		ug/L		107	85 - 122	1	20

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

Lab Sample ID: LCSD 640-94681/3
Matrix: Water
Analysis Batch: 94681

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			30.0	31.9		ug/L		106	76 - 122	2	20
Trichloroethene			30.0	31.1		ug/L		104	82 - 121	3	20
Trichlorofluoromethane			30.0	28.5		ug/L		95	84 - 139	2	20
1,2,3-Trichloropropane			30.0	31.4		ug/L		105	79 - 128	2	20
Vinyl acetate			60.0	60.5		ug/L		101	39 - 185	1	27
Vinyl chloride			30.0	26.2		ug/L		87	70 - 139	2	20
Xylenes, Total			90.0	95.8		ug/L		106	86 - 123	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*98*		*81 - 113*
Toluene-d8 (Surr)	*98*		*87 - 112*

Lab Sample ID: 640-39701-9 MS
Matrix: Water
Analysis Batch: 94681

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	2.8	U	400	365		ug/L		91	61 - 131		
Acrylonitrile	3.0	U	800	710		ug/L		89	72 - 123		
Benzene	0.13	U	40.0	38.2		ug/L		95	74 - 125		
Bromoform	0.18	U	40.0	38.9		ug/L		97	52 - 134		
Bromomethane	0.51	U	40.0	20.6		ug/L		51	10 - 182		
2-Butanone (MEK)	2.6	U	400	409		ug/L		102	68 - 120		
Carbon disulfide	0.23	U	40.0	33.3		ug/L		83	52 - 170		
Carbon tetrachloride	0.18	U	40.0	36.4		ug/L		91	73 - 131		
Chlorobenzene	0.13	U	40.0	37.5		ug/L		94	80 - 118		
Chlorobromomethane	0.21	U	40.0	36.7		ug/L		92	63 - 129		
Chlorodibromomethane	0.15	U	40.0	40.5		ug/L		101	64 - 125		
Chloroethane	0.33	U	40.0	39.5		ug/L		99	29 - 148		
Chloroform	0.12	U	40.0	35.3		ug/L		88	78 - 123		
Chloromethane	0.18	U	40.0	29.8		ug/L		75	51 - 142		
cis-1,2-Dichloroethene	0.21	U	40.0	34.6		ug/L		86	64 - 134		
cis-1,3-Dichloropropene	0.14	U	40.0	37.3		ug/L		93	67 - 112		
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	41.5		ug/L		104	52 - 135		
Dibromomethane	0.20	U	40.0	40.3		ug/L		101	78 - 118		
1,2-Dichlorobenzene	0.14	U	40.0	36.2		ug/L		90	72 - 130		
1,4-Dichlorobenzene	0.20	U	40.0	34.8		ug/L		87	76 - 122		
Dichlorobromomethane	0.17	U	40.0	38.9		ug/L		97	76 - 119		
1,1-Dichloroethane	0.20	U	40.0	36.2		ug/L		91	71 - 135		
1,2-Dichloroethane	0.15	U	40.0	39.8		ug/L		99	78 - 127		
1,1-Dichloroethene	0.23	U	40.0	35.5		ug/L		89	60 - 151		
1,2-Dichloropropane	0.17	U	40.0	38.8		ug/L		97	76 - 118		
Ethylbenzene	0.16	U	40.0	35.0		ug/L		88	60 - 132		
Ethylene Dibromide	0.15	U	40.0	38.1		ug/L		95	74 - 116		
2-Hexanone	1.0	U	400	424		ug/L		106	52 - 127		
Iodomethane	0.13	U	40.0	9.91	I	ug/L		25	10 - 165		
Methylene Chloride	0.21	U	40.0	35.3		ug/L		88	71 - 130		
4-Methyl-2-pentanone (MIBK)	1.5	U	400	441		ug/L		110	67 - 131		

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

Lab Sample ID: 640-39701-9 MS
Matrix: Water
Analysis Batch: 94681

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	0.12	U	40.0	38.3		ug/L		96	74 - 124
1,1,1,2-Tetrachloroethane	0.14	U	40.0	40.4		ug/L		101	70 - 119
1,1,2,2-Tetrachloroethane	0.11	U	40.0	41.2		ug/L		103	74 - 124
Tetrachloroethene	0.19	U	40.0	33.9		ug/L		85	71 - 133
Toluene	0.14	U	40.0	36.1		ug/L		90	49 - 146
trans-1,4-Dichloro-2-butene	0.43	U	80.0	85.7		ug/L		107	61 - 125
trans-1,2-Dichloroethene	0.26	U	40.0	35.3		ug/L		88	72 - 135
trans-1,3-Dichloropropene	0.14	U	40.0	35.7		ug/L		89	64 - 110
1,1,1-Trichloroethane	0.16	U	40.0	38.6		ug/L		97	85 - 123
1,1,2-Trichloroethane	0.20	U	40.0	39.2		ug/L		98	72 - 120
Trichloroethene	0.16	U	40.0	36.0		ug/L		90	75 - 122
Trichlorofluoromethane	0.21	U	40.0	33.0		ug/L		83	83 - 147
1,2,3-Trichloropropane	0.23	U	40.0	44.3		ug/L		111	78 - 128
Vinyl acetate	0.38	U	80.0	78.0		ug/L		98	12 - 189
Vinyl chloride	0.22	U	40.0	33.2		ug/L		83	61 - 148
Xylenes, Total	0.44	U	120	109		ug/L		91	61 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*96*		*81 - 113*
Toluene-d8 (Surr)	*96*		*87 - 112*

Lab Sample ID: 640-39701-9 MSD
Matrix: Water
Analysis Batch: 94681

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.8	U	400	389		ug/L		97	61 - 131	7	40
Acrylonitrile	3.0	U	800	734		ug/L		92	72 - 123	3	29
Benzene	0.13	U	40.0	38.7		ug/L		97	74 - 125	1	23
Bromoform	0.18	U	40.0	37.7		ug/L		94	52 - 134	3	28
Bromomethane	0.51	U	40.0	30.5		ug/L		76	10 - 182	39	56
2-Butanone (MEK)	2.6	U	400	387		ug/L		97	68 - 120	5	28
Carbon disulfide	0.23	U	40.0	37.6		ug/L		94	52 - 170	12	31
Carbon tetrachloride	0.18	U	40.0	39.4		ug/L		98	73 - 131	8	20
Chlorobenzene	0.13	U	40.0	38.6		ug/L		96	80 - 118	3	20
Chlorobromomethane	0.21	U	40.0	38.2		ug/L		95	63 - 129	4	24
Chlorodibromomethane	0.15	U	40.0	40.2		ug/L		100	64 - 125	1	22
Chloroethane	0.33	U	40.0	37.1		ug/L		93	29 - 148	6	50
Chloroform	0.12	U	40.0	36.6		ug/L		91	78 - 123	3	22
Chloromethane	0.18	U	40.0	32.5		ug/L		81	51 - 142	9	27
cis-1,2-Dichloroethene	0.21	U	40.0	37.7		ug/L		94	64 - 134	9	32
cis-1,3-Dichloropropene	0.14	U	40.0	36.6		ug/L		92	67 - 112	2	23
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	38.6		ug/L		97	52 - 135	7	37
Dibromomethane	0.20	U	40.0	39.0		ug/L		98	78 - 118	3	22
1,2-Dichlorobenzene	0.14	U	40.0	37.4		ug/L		93	72 - 130	3	24
1,4-Dichlorobenzene	0.20	U	40.0	37.6		ug/L		94	76 - 122	8	23
Dichlorobromomethane	0.17	U	40.0	39.5		ug/L		99	76 - 119	2	24
1,1-Dichloroethane	0.20	U	40.0	38.2		ug/L		95	71 - 135	5	22

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

Lab Sample ID: 640-39701-9 MSD
Matrix: Water
Analysis Batch: 94681

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	0.15	U	40.0	39.4		ug/L		98	78 - 127	1	22
1,1-Dichloroethene	0.23	U	40.0	40.7		ug/L		102	60 - 151	14	31
1,2-Dichloropropane	0.17	U	40.0	38.8		ug/L		97	76 - 118	0	23
Ethylbenzene	0.16	U	40.0	38.0		ug/L		95	60 - 132	8	24
Ethylene Dibromide	0.15	U	40.0	38.5		ug/L		96	74 - 116	1	24
2-Hexanone	1.0	U	400	401		ug/L		100	52 - 127	6	24
Iodomethane	0.13	U	40.0	13.9		ug/L		35	10 - 165	33	60
Methylene Chloride	0.21	U	40.0	35.6		ug/L		89	71 - 130	1	33
4-Methyl-2-pentanone (MIBK)	1.5	U	400	428		ug/L		107	67 - 131	3	23
Styrene	0.12	U	40.0	39.2		ug/L		98	74 - 124	2	23
1,1,1,2-Tetrachloroethane	0.14	U	40.0	39.9		ug/L		100	70 - 119	1	23
1,1,2,2-Tetrachloroethane	0.11	U	40.0	38.7		ug/L		97	74 - 124	6	24
Tetrachloroethene	0.19	U	40.0	37.5		ug/L		94	71 - 133	10	22
Toluene	0.14	U	40.0	37.5		ug/L		94	49 - 146	4	21
trans-1,4-Dichloro-2-butene	0.43	U	80.0	82.8		ug/L		103	61 - 125	4	50
trans-1,2-Dichloroethene	0.26	U	40.0	38.7		ug/L		97	72 - 135	9	29
trans-1,3-Dichloropropene	0.14	U	40.0	36.6		ug/L		91	64 - 110	2	26
1,1,1-Trichloroethane	0.16	U	40.0	40.0		ug/L		100	85 - 123	4	22
1,1,2-Trichloroethane	0.20	U	40.0	39.0		ug/L		98	72 - 120	0	22
Trichloroethene	0.16	U	40.0	37.3		ug/L		93	75 - 122	4	20
Trichlorofluoromethane	0.21	U	40.0	35.0		ug/L		87	83 - 147	6	28
1,2,3-Trichloropropane	0.23	U	40.0	41.8		ug/L		104	78 - 128	6	25
Vinyl acetate	0.38	U	80.0	77.8		ug/L		97	12 - 189	0	60
Vinyl chloride	0.22	U	40.0	35.3		ug/L		88	61 - 148	6	27
Xylenes, Total	0.44	U	120	114		ug/L		95	61 - 136	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*97*		*81 - 113*
Toluene-d8 (Surr)	*96*		*87 - 112*

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

Lab Sample ID: MB 640-94826/1-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94826

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		08/06/12 12:28	08/08/12 00:52	1
EDB	0.0065	U	0.020	0.0065	ug/L		08/06/12 12:28	08/08/12 00:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*95*		*56 - 144*	*08/06/12 12:28*	*08/08/12 00:52*	*1*

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

Lab Sample ID: LCS 640-94826/2-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.235		ug/L		94	89 - 132		
EDB			0.250	0.239		ug/L		96	85 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*96*		*56 - 144*

Lab Sample ID: LCSD 640-94826/3-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.234		ug/L		94	89 - 132	1	11
EDB			0.250	0.232		ug/L		93	85 - 118	3	12

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*98*		*56 - 144*

Lab Sample ID: 640-39647-2 MS
Matrix: Water
Analysis Batch: 94864

Client Sample ID: MWB-11(1)(R)c
Prep Type: Total/NA
Prep Batch: 94826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP	0.0058	U	0.500	0.506		ug/L		101	89 - 132		
EDB	0.0062	U	0.500	0.519		ug/L		104	85 - 118		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*103*		*56 - 144*

Lab Sample ID: 640-39647-2 MSD
Matrix: Water
Analysis Batch: 94864

Client Sample ID: MWB-11(1)(R)c
Prep Type: Total/NA
Prep Batch: 94826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0058	U	0.500	0.461		ug/L		92	89 - 132	9	11
EDB	0.0062	U	0.500	0.466		ug/L		93	85 - 118	11	12

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*94*		*56 - 144*

Lab Sample ID: MB 640-94827/1-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94827

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		08/06/12 12:42	08/07/12 18:27	1
EDB	0.0065	U	0.020	0.0065	ug/L		08/06/12 12:42	08/07/12 18:27	1

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

Lab Sample ID: MB 640-94827/1-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94827

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	105		56 - 144	08/06/12 12:42	08/07/12 18:27	1

Lab Sample ID: LCS 640-94827/2-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94827

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.243		ug/L		97	89 - 132		
EDB			0.250	0.252		ug/L		101	85 - 118		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1,2-Tetrachloroethane	100		56 - 144

Lab Sample ID: LCSD 640-94827/3-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94827

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.243		ug/L		97	89 - 132	0	11
EDB			0.250	0.247		ug/L		99	85 - 118	2	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,1,2-Tetrachloroethane	105		56 - 144

Lab Sample ID: 640-39701-9 MS
Matrix: Water
Analysis Batch: 94864

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA
Prep Batch: 94827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP	0.0057	U	0.235	0.229		ug/L		97	89 - 132		
EDB	0.0061	U	0.235	0.230		ug/L		98	85 - 118		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,1,1,2-Tetrachloroethane	104		56 - 144

Lab Sample ID: 640-39701-9 MSD
Matrix: Water
Analysis Batch: 94864

Client Sample ID: MWB-32(D)d
Prep Type: Total/NA
Prep Batch: 94827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0057	U	0.233	0.223		ug/L		96	89 - 132	3	11
EDB	0.0061	U	0.233	0.235		ug/L		101	85 - 118	2	12

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,1,1,2-Tetrachloroethane	103		56 - 144

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

Lab Sample ID: MB 400-160031/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 160078 — **Prep Batch: 160031**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		08/07/12 08:30	08/07/12 11:24	1
Mercury	0.00020	U	0.00050	0.00020	ug/L		08/07/12 08:30	08/07/12 11:24	1

Lab Sample ID: LCS 400-160031/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 160078 — **Prep Batch: 160031**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00529		ug/L		106	79 - 121
Mercury	0.00500	0.00529		ug/L		106	79 - 121

Lab Sample ID: LCSD 400-160031/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 160078 — **Prep Batch: 160031**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.00544		ug/L		109	79 - 121	3	20
Mercury	0.00500	0.00544		ug/L		109	79 - 121	3	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-245014/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 245592 — **Prep Batch: 245014**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Barium	1.3	U	5.0	1.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 04:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 04:00	1
Chromium	2.5	U	5.0	2.5	ug/L		07/30/12 16:27	08/03/12 04:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		07/30/12 16:27	08/03/12 04:00	1
Copper	1.1	U	5.0	1.1	ug/L		07/30/12 16:27	08/03/12 04:00	1
Iron	33	U	100	33	ug/L		07/30/12 16:27	08/03/12 04:00	1
Lead	0.20	U	1.5	0.20	ug/L		07/30/12 16:27	08/03/12 04:00	1
Nickel	2.0	U	5.0	2.0	ug/L		07/30/12 16:27	08/03/12 04:00	1
Selenium	1.0	U	2.5	1.0	ug/L		07/30/12 16:27	08/03/12 04:00	1
Silver	0.25	U	1.0	0.25	ug/L		07/30/12 16:27	08/03/12 04:00	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 04:00	1
Vanadium	3.8	U	10	3.8	ug/L		07/30/12 16:27	08/03/12 04:00	1
Zinc	8.3	U	20	8.3	ug/L		07/30/12 16:27	08/03/12 04:00	1

Lab Sample ID: LCS 680-245014/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 245592 — **Prep Batch: 245014**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	59.6		ug/L		119	75 - 125
Arsenic	100	102		ug/L		102	75 - 125

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

Lab Sample ID: LCS 680-245014/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	100	105		ug/L		105	75 - 125
Beryllium	50.0	48.8		ug/L		98	75 - 125
Cadmium	50.0	50.8		ug/L		102	75 - 125
Chromium	100	96.8		ug/L		97	75 - 125
Cobalt	50.0	49.9		ug/L		100	75 - 125
Copper	100	100		ug/L		100	75 - 125
Iron	5000	4970		ug/L		99	75 - 125
Lead	50.0	53.9		ug/L		108	75 - 125
Nickel	100	99.8		ug/L		100	75 - 125
Selenium	100	98.1		ug/L		98	75 - 125
Silver	50.0	51.2		ug/L		102	75 - 125
Thallium	40.0	42.0		ug/L		105	75 - 125
Vanadium	100	97.3		ug/L		97	75 - 125
Zinc	100	97.5		ug/L		98	75 - 125

Lab Sample ID: MB 680-245258/1-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245258

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:40	08/03/12 07:06	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:40	08/03/12 07:06	1
Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:40	08/03/12 07:06	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:40	08/03/12 07:06	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:40	08/03/12 07:06	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:40	08/03/12 07:06	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:40	08/03/12 07:06	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:40	08/03/12 07:06	1
Iron	33	U	100	33	ug/L		08/01/12 10:40	08/03/12 07:06	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:40	08/03/12 07:06	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:40	08/03/12 07:06	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:40	08/03/12 07:06	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:40	08/03/12 07:06	1
Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:40	08/03/12 07:06	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:40	08/03/12 07:06	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:40	08/03/12 07:06	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:40	08/03/12 07:06	1

Lab Sample ID: LCS 680-245258/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	57.4		ug/L		115	75 - 125
Arsenic	100	97.6		ug/L		98	75 - 125
Barium	100	101		ug/L		101	75 - 125
Beryllium	50.0	47.8		ug/L		96	75 - 125
Cadmium	50.0	50.0		ug/L		100	75 - 125
Chromium	100	92.5		ug/L		92	75 - 125
Cobalt	50.0	48.1		ug/L		96	75 - 125

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

Lab Sample ID: LCS 680-245258/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	100	94.1		ug/L		94	75 - 125
Iron	5000	4760		ug/L		95	75 - 125
Lead	50.0	52.8		ug/L		106	75 - 125
Nickel	100	94.9		ug/L		95	75 - 125
Selenium	100	98.3		ug/L		98	75 - 125
Silver	50.0	50.2		ug/L		100	75 - 125
Sodium	5.00	4.92		mg/L		98	75 - 125
Thallium	40.0	40.1		ug/L		100	75 - 125
Vanadium	100	94.8		ug/L		95	75 - 125
Zinc	100	94.7		ug/L		95	75 - 125

Lab Sample ID: 640-39625-1 MS
Matrix: Water
Analysis Batch: 245592

Client Sample ID: MWB-29(S)c
Prep Type: Total Recoverable
Prep Batch: 245258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	57.2		ug/L		114	75 - 125
Arsenic	1.3	U	100	99.0		ug/L		99	75 - 125
Barium	15		100	108		ug/L		93	75 - 125
Beryllium	0.25	U	50.0	47.7		ug/L		95	75 - 125
Cadmium	0.095	U	50.0	49.8		ug/L		100	75 - 125
Chromium	2.5	U	100	95.6		ug/L		96	75 - 125
Cobalt	0.15	U	50.0	47.9		ug/L		96	75 - 125
Copper	1.1	U	100	96.4		ug/L		96	75 - 125
Iron	330		5000	5080		ug/L		95	75 - 125
Lead	0.20	U	50.0	53.1		ug/L		106	75 - 125
Nickel	2.0	U	100	96.6		ug/L		97	75 - 125
Selenium	1.0	U	100	95.4		ug/L		95	75 - 125
Silver	0.25	U	50.0	50.1		ug/L		100	75 - 125
Sodium	4.3		5.00	9.06		mg/L		96	75 - 125
Thallium	0.50	U	40.0	41.2		ug/L		103	75 - 125
Vanadium	3.8	U	100	92.9		ug/L		93	75 - 125
Zinc	8.3	U	100	96.5		ug/L		96	75 - 125

Lab Sample ID: 640-39625-1 MSD
Matrix: Water
Analysis Batch: 245592

Client Sample ID: MWB-29(S)c
Prep Type: Total Recoverable
Prep Batch: 245258

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	57.2		ug/L		114	75 - 125	0	20
Arsenic	1.3	U	100	99.8		ug/L		100	75 - 125	1	20
Barium	15		100	111		ug/L		96	75 - 125	3	20
Beryllium	0.25	U	50.0	48.5		ug/L		97	75 - 125	2	20
Cadmium	0.095	U	50.0	49.9		ug/L		100	75 - 125	0	20
Chromium	2.5	U	100	93.6		ug/L		94	75 - 125	2	20
Cobalt	0.15	U	50.0	47.5		ug/L		95	75 - 125	1	20
Copper	1.1	U	100	94.7		ug/L		95	75 - 125	2	20
Iron	330		5000	5140		ug/L		96	75 - 125	1	20
Lead	0.20	U	50.0	54.3		ug/L		109	75 - 125	2	20
Nickel	2.0	U	100	95.7		ug/L		96	75 - 125	1	20

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

Lab Sample ID: 640-39625-1 MSD
Matrix: Water
Analysis Batch: 245592

Client Sample ID: MWB-29(S)c
Prep Type: Total Recoverable
Prep Batch: 245258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	1.0	U	100	97.4		ug/L		97	75 - 125	2	20
Silver	0.25	U	50.0	50.7		ug/L		101	75 - 125	1	20
Sodium	4.3		5.00	9.31		mg/L		101	75 - 125	3	20
Thallium	0.50	U	40.0	41.6		ug/L		104	75 - 125	1	20
Vanadium	3.8	U	100	96.7		ug/L		97	75 - 125	4	20
Zinc	8.3	U	100	98.9		ug/L		99	75 - 125	2	20

Lab Sample ID: MB 680-245259/1-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245259

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:42	08/03/12 09:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:42	08/03/12 09:18	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:42	08/03/12 09:18	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:42	08/03/12 09:18	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Iron	33	U	100	33	ug/L		08/01/12 10:42	08/03/12 09:18	1
Iron	33	U	100	33	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 09:18	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 09:18	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 09:18	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 09:18	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:42	08/03/12 09:18	1
Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 09:18	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 09:18	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:42	08/03/12 09:18	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 09:18	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:42	08/03/12 09:18	1

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

Lab Sample ID: LCS 680-245259/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	56.8		ug/L		114	75 - 125
Dissolved Antimony	50.0	56.8		ug/L		114	75 - 125
Arsenic	100	94.7		ug/L		95	75 - 125
Dissolved Arsenic	100	94.7		ug/L		95	75 - 125
Barium	100	98.7		ug/L		99	75 - 125
Dissolved Barium	100	98.7		ug/L		99	75 - 125
Beryllium	50.0	46.0		ug/L		92	75 - 125
Dissolved Beryllium	50.0	46.0		ug/L		92	75 - 125
Cadmium	50.0	49.3		ug/L		99	75 - 125
Dissolved Cadmium	50.0	49.3		ug/L		99	75 - 125
Chromium	100	91.5		ug/L		91	75 - 125
Dissolved Chromium	100	91.5		ug/L		91	75 - 125
Cobalt	50.0	47.3		ug/L		95	75 - 125
Dissolved Cobalt	50.0	47.3		ug/L		95	75 - 125
Copper	100	94.1		ug/L		94	75 - 125
Dissolved Copper	100	94.1		ug/L		94	75 - 125
Dissolved Iron	5000	4680		ug/L		94	75 - 125
Iron	5000	4680		ug/L		94	75 - 125
Dissolved Lead	50.0	52.3		ug/L		105	75 - 125
Lead	50.0	52.3		ug/L		105	75 - 125
Dissolved Nickel	100	90.7		ug/L		91	75 - 125
Nickel	100	90.7		ug/L		91	75 - 125
Dissolved Selenium	100	93.1		ug/L		93	75 - 125
Selenium	100	93.1		ug/L		93	75 - 125
Dissolved Silver	50.0	49.9		ug/L		100	75 - 125
Silver	50.0	49.9		ug/L		100	75 - 125
Dissolved Sodium	5.00	4.76		mg/L		95	75 - 125
Sodium	5.00	4.76		mg/L		95	75 - 125
Dissolved Thallium	40.0	40.4		ug/L		101	75 - 125
Thallium	40.0	40.4		ug/L		101	75 - 125
Dissolved Vanadium	100	90.5		ug/L		91	75 - 125
Vanadium	100	90.5		ug/L		91	75 - 125
Dissolved Zinc	100	93.1		ug/L		93	75 - 125
Zinc	100	93.1		ug/L		93	75 - 125

Lab Sample ID: 640-39647-1 MS
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 01 39647
Prep Type: Total Recoverable
Prep Batch: 245259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	56.8		ug/L		114	75 - 125
Dissolved Antimony	2.3		50.0	56.8		ug/L		114	75 - 125
Arsenic	1.3	U	100	95.5		ug/L		96	75 - 125
Dissolved Arsenic	1.3		100	95.5		ug/L		96	75 - 125
Barium	1.3	U	100	100		ug/L		100	75 - 125
Dissolved Barium	1.3		100	100		ug/L		100	75 - 125
Beryllium	0.25	U	50.0	47.0		ug/L		94	75 - 125
Dissolved Beryllium	0.25		50.0	47.0		ug/L		94	75 - 125
Cadmium	0.095	U	50.0	49.3		ug/L		99	75 - 125
Dissolved Cadmium	0.095		50.0	49.3		ug/L		99	75 - 125

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

Lab Sample ID: 640-39647-1 MS
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 01 39647
Prep Type: Total Recoverable
Prep Batch: 245259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	2.5	U	100	91.7		ug/L		92	75 - 125
Dissolved Chromium	2.5		100	91.7		ug/L		92	75 - 125
Cobalt	0.15	U	50.0	47.3		ug/L		95	75 - 125
Dissolved Cobalt	0.15		50.0	47.3		ug/L		95	75 - 125
Copper	1.1	U	100	93.8		ug/L		94	75 - 125
Dissolved Copper	1.1		100	93.8		ug/L		94	75 - 125
Dissolved Iron	33		5000	4700		ug/L		94	75 - 125
Iron	33		5000	4700		ug/L		94	75 - 125
Dissolved Lead	0.20		50.0	52.8		ug/L		106	75 - 125
Lead	0.20	U	50.0	52.8		ug/L		106	75 - 125
Dissolved Nickel	2.0		100	99.4		ug/L		99	75 - 125
Nickel	2.0	U	100	99.4		ug/L		99	75 - 125
Dissolved Selenium	1.0		100	93.6		ug/L		94	75 - 125
Selenium	1.0	U	100	93.6		ug/L		94	75 - 125
Dissolved Silver	0.25		50.0	49.3		ug/L		99	75 - 125
Silver	0.25	U	50.0	49.3		ug/L		99	75 - 125
Dissolved Sodium	0.25		5.00	4.95		mg/L		99	75 - 125
Sodium	0.25		5.00	4.95		mg/L		99	75 - 125
Dissolved Thallium	0.50		40.0	39.5		ug/L		99	75 - 125
Thallium	0.50	U	40.0	39.5		ug/L		99	75 - 125
Dissolved Vanadium	3.8		100	91.6		ug/L		92	75 - 125
Vanadium	3.8	U	100	91.6		ug/L		92	75 - 125
Dissolved Zinc	8.3		100	95.9		ug/L		96	75 - 125
Zinc	8.3	U	100	95.9		ug/L		96	75 - 125

Lab Sample ID: 640-39647-1 MSD
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 01 39647
Prep Type: Total Recoverable
Prep Batch: 245259

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	55.7		ug/L		111	75 - 125	2	20
Dissolved Antimony	2.3		50.0	55.7		ug/L		111	75 - 125	2	20
Arsenic	1.3	U	100	96.7		ug/L		97	75 - 125	1	20
Dissolved Arsenic	1.3		100	96.7		ug/L		97	75 - 125	1	20
Barium	1.3	U	100	102		ug/L		102	75 - 125	1	20
Dissolved Barium	1.3		100	102		ug/L		102	75 - 125	1	20
Beryllium	0.25	U	50.0	47.2		ug/L		94	75 - 125	0	20
Dissolved Beryllium	0.25		50.0	47.2		ug/L		94	75 - 125	0	20
Cadmium	0.095	U	50.0	50.7		ug/L		101	75 - 125	3	20
Dissolved Cadmium	0.095		50.0	50.7		ug/L		101	75 - 125	3	20
Chromium	2.5	U	100	94.5		ug/L		94	75 - 125	3	20
Dissolved Chromium	2.5		100	94.5		ug/L		94	75 - 125	3	20
Cobalt	0.15	U	50.0	48.0		ug/L		96	75 - 125	1	20
Dissolved Cobalt	0.15		50.0	48.0		ug/L		96	75 - 125	1	20
Copper	1.1	U	100	98.1		ug/L		98	75 - 125	5	20
Dissolved Copper	1.1		100	98.1		ug/L		98	75 - 125	5	20
Dissolved Iron	33		5000	4710		ug/L		94	75 - 125	0	20
Iron	33		5000	4710		ug/L		94	75 - 125	0	20
Dissolved Lead	0.20		50.0	53.0		ug/L		106	75 - 125	0	20
Lead	0.20	U	50.0	53.0		ug/L		106	75 - 125	0	20

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

Lab Sample ID: 640-39647-1 MSD
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 01 39647
Prep Type: Total Recoverable
Prep Batch: 245259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Nickel	2.0		100	94.8		ug/L		95	75 - 125	5	20
Nickel	2.0	U	100	94.8		ug/L		95	75 - 125	5	20
Dissolved Selenium	1.0		100	94.3		ug/L		94	75 - 125	1	20
Selenium	1.0	U	100	94.3		ug/L		94	75 - 125	1	20
Dissolved Silver	0.25		50.0	49.6		ug/L		99	75 - 125	1	20
Silver	0.25	U	50.0	49.6		ug/L		99	75 - 125	1	20
Dissolved Sodium	0.25		5.00	4.98		mg/L		100	75 - 125	1	20
Sodium	0.25		5.00	4.98		mg/L		100	75 - 125	1	20
Dissolved Thallium	0.50		40.0	40.6		ug/L		102	75 - 125	3	20
Thallium	0.50	U	40.0	40.6		ug/L		102	75 - 125	3	20
Dissolved Vanadium	3.8		100	90.9		ug/L		91	75 - 125	1	20
Vanadium	3.8	U	100	90.9		ug/L		91	75 - 125	1	20
Dissolved Zinc	8.3		100	99.1		ug/L		99	75 - 125	3	20
Zinc	8.3	U	100	99.1		ug/L		99	75 - 125	3	20

Lab Sample ID: MB 680-245261/1-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245261

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Antimony	2.3	U	5.0	2.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Arsenic	1.3	U	2.5	1.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Barium	1.3	U	5.0	1.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Beryllium	0.25	U	0.50	0.25	ug/L		08/01/12 10:50	08/02/12 21:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Cadmium	0.095	U	0.50	0.095	ug/L		08/01/12 10:50	08/02/12 21:54	1
Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Chromium	2.5	U	5.0	2.5	ug/L		08/01/12 10:50	08/02/12 21:54	1
Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Cobalt	0.15	U	0.50	0.15	ug/L		08/01/12 10:50	08/02/12 21:54	1
Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Copper	1.1	U	5.0	1.1	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Iron	33	U	100	33	ug/L		08/01/12 10:50	08/02/12 21:54	1
Iron	33	U	100	33	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 21:54	1
Lead	0.20	U	1.5	0.20	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 21:54	1
Nickel	2.0	U	5.0	2.0	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 21:54	1
Selenium	1.0	U	2.5	1.0	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 21:54	1
Silver	0.25	U	1.0	0.25	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:50	08/02/12 21:54	1
Sodium	0.25	U	0.50	0.25	mg/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 21:54	1
Thallium	0.50	U	1.0	0.50	ug/L		08/01/12 10:50	08/02/12 21:54	1

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

Lab Sample ID: MB 680-245261/1-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245261

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 21:54	1
Vanadium	3.8	U	10	3.8	ug/L		08/01/12 10:50	08/02/12 21:54	1
Dissolved Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 21:54	1
Zinc	8.3	U	20	8.3	ug/L		08/01/12 10:50	08/02/12 21:54	1

Lab Sample ID: LCS 680-245261/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	57.1		ug/L		114	75 - 125
Dissolved Antimony	50.0	57.1		ug/L		114	75 - 125
Arsenic	100	102		ug/L		102	75 - 125
Dissolved Arsenic	100	102		ug/L		102	75 - 125
Barium	100	102		ug/L		102	75 - 125
Dissolved Barium	100	102		ug/L		102	75 - 125
Beryllium	50.0	47.7		ug/L		95	75 - 125
Dissolved Beryllium	50.0	47.7		ug/L		95	75 - 125
Cadmium	50.0	50.9		ug/L		102	75 - 125
Dissolved Cadmium	50.0	50.9		ug/L		102	75 - 125
Chromium	100	97.4		ug/L		97	75 - 125
Dissolved Chromium	100	97.4		ug/L		97	75 - 125
Cobalt	50.0	50.1		ug/L		100	75 - 125
Dissolved Cobalt	50.0	50.1		ug/L		100	75 - 125
Copper	100	101		ug/L		101	75 - 125
Dissolved Copper	100	101		ug/L		101	75 - 125
Dissolved Iron	5000	5030		ug/L		101	75 - 125
Iron	5000	5030		ug/L		101	75 - 125
Dissolved Lead	50.0	51.5		ug/L		103	75 - 125
Lead	50.0	51.5		ug/L		103	75 - 125
Dissolved Nickel	100	99.9		ug/L		100	75 - 125
Nickel	100	99.9		ug/L		100	75 - 125
Dissolved Selenium	100	94.0		ug/L		94	75 - 125
Selenium	100	94.0		ug/L		94	75 - 125
Dissolved Silver	50.0	51.1		ug/L		102	75 - 125
Silver	50.0	51.1		ug/L		102	75 - 125
Dissolved Sodium	5.00	4.89		mg/L		98	75 - 125
Sodium	5.00	4.89		mg/L		98	75 - 125
Dissolved Thallium	40.0	39.6		ug/L		99	75 - 125
Thallium	40.0	39.6		ug/L		99	75 - 125
Dissolved Vanadium	100	99.2		ug/L		99	75 - 125
Vanadium	100	99.2		ug/L		99	75 - 125
Dissolved Zinc	100	101		ug/L		101	75 - 125
Zinc	100	101		ug/L		101	75 - 125

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

Lab Sample ID: 640-39701-1 MS
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 02 39701
Prep Type: Total Recoverable
Prep Batch: 245261

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	57.5		ug/L		115	75 - 125
Dissolved Antimony	2.3		50.0	57.5		ug/L		115	75 - 125
Arsenic	1.3	U	100	101		ug/L		101	75 - 125
Dissolved Arsenic	1.3		100	101		ug/L		101	75 - 125
Barium	1.3	U	100	100		ug/L		100	75 - 125
Dissolved Barium	1.3		100	100		ug/L		100	75 - 125
Beryllium	0.25	U	50.0	48.9		ug/L		98	75 - 125
Dissolved Beryllium	0.25		50.0	48.9		ug/L		98	75 - 125
Cadmium	0.095	U	50.0	50.8		ug/L		102	75 - 125
Dissolved Cadmium	0.095		50.0	50.8		ug/L		102	75 - 125
Chromium	2.5	U	100	98.4		ug/L		98	75 - 125
Dissolved Chromium	2.5		100	98.4		ug/L		98	75 - 125
Cobalt	0.15	U	50.0	50.5		ug/L		101	75 - 125
Dissolved Cobalt	0.15		50.0	50.5		ug/L		101	75 - 125
Copper	1.1	U	100	99.8		ug/L		100	75 - 125
Dissolved Copper	1.1		100	99.8		ug/L		100	75 - 125
Dissolved Iron	33		5000	4970		ug/L		99	75 - 125
Iron	33	U	5000	4970		ug/L		99	75 - 125
Dissolved Lead	0.20		50.0	52.2		ug/L		104	75 - 125
Lead	0.20	U	50.0	52.2		ug/L		104	75 - 125
Dissolved Nickel	2.0		100	99.4		ug/L		99	75 - 125
Nickel	2.0	U	100	99.4		ug/L		99	75 - 125
Dissolved Selenium	1.0		100	97.4		ug/L		97	75 - 125
Selenium	1.0	U	100	97.4		ug/L		97	75 - 125
Dissolved Silver	0.25		50.0	51.6		ug/L		103	75 - 125
Silver	0.25	U	50.0	51.6		ug/L		103	75 - 125
Dissolved Sodium	0.25		5.00	5.00		mg/L		100	75 - 125
Sodium	0.25	U	5.00	5.00		mg/L		100	75 - 125
Dissolved Thallium	0.50		40.0	40.6		ug/L		101	75 - 125
Thallium	0.50	U	40.0	40.6		ug/L		101	75 - 125
Dissolved Vanadium	3.8		100	96.6		ug/L		97	75 - 125
Vanadium	3.8	U	100	96.6		ug/L		97	75 - 125
Dissolved Zinc	8.3		100	103		ug/L		103	75 - 125
Zinc	8.3	U	100	103		ug/L		103	75 - 125

Lab Sample ID: 640-39701-1 MSD
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Field Blank 02 39701
Prep Type: Total Recoverable
Prep Batch: 245261

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	55.1		ug/L		110	75 - 125	4	20
Dissolved Antimony	2.3		50.0	55.1		ug/L		110	75 - 125	4	20
Arsenic	1.3	U	100	100		ug/L		100	75 - 125	1	20
Dissolved Arsenic	1.3		100	100		ug/L		100	75 - 125	1	20
Barium	1.3	U	100	102		ug/L		102	75 - 125	2	20
Dissolved Barium	1.3		100	102		ug/L		102	75 - 125	2	20
Beryllium	0.25	U	50.0	47.5		ug/L		95	75 - 125	3	20
Dissolved Beryllium	0.25		50.0	47.5		ug/L		95	75 - 125	3	20
Cadmium	0.095	U	50.0	50.2		ug/L		100	75 - 125	1	20
Dissolved Cadmium	0.095		50.0	50.2		ug/L		100	75 - 125	1	20

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

Lab Sample ID: 640-39701-1 MSD — **Client Sample ID: Field Blank 02 39701**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 245592 — **Prep Batch: 245261**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	2.5	U	100	94.7		ug/L		95	75 - 125	4	20
Dissolved Chromium	2.5		100	94.7		ug/L		95	75 - 125	4	20
Cobalt	0.15	U	50.0	50.4		ug/L		101	75 - 125	0	20
Dissolved Cobalt	0.15		50.0	50.4		ug/L		101	75 - 125	0	20
Copper	1.1	U	100	101		ug/L		101	75 - 125	1	20
Dissolved Copper	1.1		100	101		ug/L		101	75 - 125	1	20
Dissolved Iron	33		5000	4920		ug/L		98	75 - 125	1	20
Iron	33	U	5000	4920		ug/L		98	75 - 125	1	20
Dissolved Lead	0.20		50.0	53.0		ug/L		106	75 - 125	1	20
Lead	0.20	U	50.0	53.0		ug/L		106	75 - 125	1	20
Dissolved Nickel	2.0		100	99.9		ug/L		100	75 - 125	0	20
Nickel	2.0	U	100	99.9		ug/L		100	75 - 125	0	20
Dissolved Selenium	1.0		100	97.5		ug/L		97	75 - 125	0	20
Selenium	1.0	U	100	97.5		ug/L		97	75 - 125	0	20
Dissolved Silver	0.25		50.0	51.1		ug/L		102	75 - 125	1	20
Silver	0.25	U	50.0	51.1		ug/L		102	75 - 125	1	20
Dissolved Sodium	0.25		5.00	4.91		mg/L		98	75 - 125	2	20
Sodium	0.25	U	5.00	4.91		mg/L		98	75 - 125	2	20
Dissolved Thallium	0.50		40.0	41.0		ug/L		102	75 - 125	1	20
Thallium	0.50	U	40.0	41.0		ug/L		102	75 - 125	1	20
Dissolved Vanadium	3.8		100	97.5		ug/L		97	75 - 125	1	20
Vanadium	3.8	U	100	97.5		ug/L		97	75 - 125	1	20
Dissolved Zinc	8.3		100	104		ug/L		104	75 - 125	0	20
Zinc	8.3	U	100	104		ug/L		104	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-245198/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245198**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		07/31/12 17:55	08/01/12 18:05	1

Lab Sample ID: LCS 680-245198/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245198**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.53		ug/L		101	80 - 120

Lab Sample ID: 640-39647-1 MS — **Client Sample ID: Field Blank 01 39647**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245198**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	0.910		ug/L		91	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 640-39647-1 MSD — **Client Sample ID: Field Blank 01 39647**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245198**

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	0.884		ug/L		88	80 - 120	3	20

Lab Sample ID: MB 680-245201/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245201**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		07/31/12 18:29	08/01/12 19:43	1

Lab Sample ID: LCS 680-245201/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245201**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.41		ug/L		96	80 - 120

Lab Sample ID: 640-39701-1 MS — **Client Sample ID: Field Blank 02 39701**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245201**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	0.920		ug/L		92	80 - 120

Lab Sample ID: 640-39701-1 MSD — **Client Sample ID: Field Blank 02 39701**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245379 — **Prep Batch: 245201**

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	0.930		ug/L		93	80 - 120	1	20

Lab Sample ID: MB 680-245202/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245460 — **Prep Batch: 245202**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		07/31/12 18:44	08/02/12 13:01	1

Lab Sample ID: LCS 680-245202/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245460 — **Prep Batch: 245202**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.39		ug/L		96	80 - 120

Lab Sample ID: 640-39625-1 MS — **Client Sample ID: MWB-29(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245460 — **Prep Batch: 245202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	0.974		ug/L		97	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 640-39625-1 MSD — **Client Sample ID: MWB-29(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245460 — **Prep Batch: 245202**

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	0.899		ug/L		90	80 - 120	8	20

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

Lab Sample ID: MB 680-246091/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246091

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3.3	U	3.3	3.3	mg/L			08/03/12 04:00	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-246000/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246000

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/06/12 15:57	5

Lab Sample ID: LCS 680-246000/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-246000/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246000

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	49.1		mg/L		98	90 - 110	0	30

Lab Sample ID: 640-39625-1 MS — **Client Sample ID: MWB-29(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.4		50.0	55.0		mg/L		97	90 - 110

Lab Sample ID: 640-39625-1 MSD — **Client Sample ID: MWB-29(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246000

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.4		50.0	55.6		mg/L		98	90 - 110	1	30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 640-39625-9 MS
Matrix: Water
Analysis Batch: 246000

Client Sample ID: MWB-22(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20		50.0	68.5		mg/L		98	90 - 110

Lab Sample ID: MB 680-246001/2
Matrix: Water
Analysis Batch: 246001

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/06/12 21:34	5

Lab Sample ID: LCS 680-246001/3
Matrix: Water
Analysis Batch: 246001

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.9		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-246001/4
Matrix: Water
Analysis Batch: 246001

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	50.0	48.9		mg/L		98	90 - 110	0	30

Lab Sample ID: 640-39647-6 MS
Matrix: Water
Analysis Batch: 246001

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	4.9	I	50.0	53.6		mg/L		97	90 - 110

Lab Sample ID: 640-39647-6 MSD
Matrix: Water
Analysis Batch: 246001

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	4.9	I	50.0	53.4		mg/L		97	90 - 110	0	30

Lab Sample ID: 640-39647-14 MS
Matrix: Water
Analysis Batch: 246001

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	5.8		50.0	54.5		mg/L		97	90 - 110

Lab Sample ID: MB 680-246004/2
Matrix: Water
Analysis Batch: 246004

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/07/12 10:26	5

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-246004/3
Matrix: Water
Analysis Batch: 246004

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-246004/4
Matrix: Water
Analysis Batch: 246004

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	50.0	49.3		mg/L		99	90 - 110	0	30

Lab Sample ID: 640-39701-5 MS
Matrix: Water
Analysis Batch: 246004

Client Sample ID: MWB-34(I)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.9	I	50.0	54.1		mg/L		98	90 - 110

Lab Sample ID: 640-39701-6 DU
Matrix: Water
Analysis Batch: 246004

Client Sample ID: MWB-34(D)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	4.6	I	4.56	I	mg/L		2	30

Lab Sample ID: MB 680-246007/2
Matrix: Water
Analysis Batch: 246007

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/07/12 16:01	5

Lab Sample ID: LCS 680-246007/3
Matrix: Water
Analysis Batch: 246007

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-246007/4
Matrix: Water
Analysis Batch: 246007

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	50.0	49.4		mg/L		99	90 - 110	0	30

Lab Sample ID: MB 680-246233/2
Matrix: Water
Analysis Batch: 246233

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/09/12 10:25	5

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-246233/3
Matrix: Water
Analysis Batch: 246233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-246233/4
Matrix: Water
Analysis Batch: 246233

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	50.0	49.1		mg/L		98	90 - 110	0	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-245617/6
Matrix: Water
Analysis Batch: 245617

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			08/03/12 14:41	1

Lab Sample ID: LCS 680-245617/7
Matrix: Water
Analysis Batch: 245617

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: 640-39625-7 DU
Matrix: Water
Analysis Batch: 245617

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
Ammonia	0.073		0.0737		mg/L		0.7	30

Lab Sample ID: MB 680-245778/1
Matrix: Water
Analysis Batch: 245778

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			08/06/12 14:45	1

Lab Sample ID: LCS 680-245778/2
Matrix: Water
Analysis Batch: 245778

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 640-39647-2 MS
Matrix: Water
Analysis Batch: 245778

Client Sample ID: MWB-11(1)(R)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.060		1.00	0.735	J	mg/L		67	90 - 110

Lab Sample ID: 640-39647-2 MSD
Matrix: Water
Analysis Batch: 245778

Client Sample ID: MWB-11(1)(R)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	0.060		1.00	0.727	J	mg/L		67	90 - 110	1	30

Lab Sample ID: 640-39647-11 DU
Matrix: Water
Analysis Batch: 245778

Client Sample ID: MWB-17(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.041	I	0.0428	I	mg/L		5	30

Lab Sample ID: MB 680-245779/1
Matrix: Water
Analysis Batch: 245779

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			08/06/12 15:24	1

Lab Sample ID: LCS 680-245779/2
Matrix: Water
Analysis Batch: 245779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: 640-39701-2 MS
Matrix: Water
Analysis Batch: 245779

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	0.039	I	1.00	1.13		mg/L		109	90 - 110

Lab Sample ID: 640-39701-2 MSD
Matrix: Water
Analysis Batch: 245779

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	0.039	I	1.00	1.10		mg/L		106	90 - 110	3	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-245912/13
Matrix: Water
Analysis Batch: 245912

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:19	1

Lab Sample ID: LCS 680-245912/14
Matrix: Water
Analysis Batch: 245912

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	0.998	0.993		mg/L		99	90 - 110

Lab Sample ID: 640-39625-1 MS
Matrix: Water
Analysis Batch: 245912

Client Sample ID: MWB-29(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	0.010	U	0.998	0.963		mg/L		96	90 - 110

Lab Sample ID: 640-39625-1 MSD
Matrix: Water
Analysis Batch: 245912

Client Sample ID: MWB-29(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	0.010	U	0.998	0.959		mg/L		96	90 - 110	0	10

Lab Sample ID: 640-39625-11 DU
Matrix: Water
Analysis Batch: 245912

Client Sample ID: MWB-12(1)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.010	U	0.010	U	mg/L		NC	10

Lab Sample ID: MB 680-245913/3
Matrix: Water
Analysis Batch: 245913

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 12:55	1

Lab Sample ID: LCS 680-245913/4
Matrix: Water
Analysis Batch: 245913

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	0.998	0.959		mg/L		96	90 - 110

Lab Sample ID: 640-39647-9 MS
Matrix: Water
Analysis Batch: 245913

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
Nitrate Nitrite as N	0.010	U	0.998	0.920		mg/L		92	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 640-39647-9 MSD — **Client Sample ID: MWB-19(I)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.010	U	0.998	0.921		mg/L		92	90 - 110	0	10

Lab Sample ID: 640-39701-1 DU — **Client Sample ID: Field Blank 02 39701**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245913

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.010	U	0.010	U	mg/L		NC	10

Lab Sample ID: MB 680-245914/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245914

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:30	1

Lab Sample ID: LCS 680-245914/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.998	0.950		mg/L		95	90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-246227/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246338 — **Prep Batch: 246227**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.024	U	0.10	0.024	mg/L		08/09/12 08:43	08/10/12 14:22	1

Lab Sample ID: LCS 680-246227/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 246338 — **Prep Batch: 246227**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	1.95		mg/L		97	60 - 140

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 660-127111/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 127111

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			07/27/12 09:59	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 660-127111/2
Matrix: Water
Analysis Batch: 127111

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	10000	9850		mg/L		99	80 - 120

Lab Sample ID: MB 660-127130/1
Matrix: Water
Analysis Batch: 127130

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			07/27/12 14:04	1

Lab Sample ID: LCS 660-127130/2
Matrix: Water
Analysis Batch: 127130

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	10000	10100		mg/L		101	80 - 120

Lab Sample ID: 640-39625-4 DU
Matrix: Water
Analysis Batch: 127130

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	200		212		mg/L		8	20

Lab Sample ID: MB 660-127242/1
Matrix: Water
Analysis Batch: 127242

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			07/31/12 15:42	1

Lab Sample ID: LCS 660-127242/2
Matrix: Water
Analysis Batch: 127242

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	10000	9930		mg/L		99	80 - 120

Lab Sample ID: MB 660-127247/1
Matrix: Water
Analysis Batch: 127247

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			07/31/12 17:45	1

Lab Sample ID: LCS 660-127247/2
Matrix: Water
Analysis Batch: 127247

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	10000	9970		mg/L		100	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 640-39647-10 DU
Matrix: Water
Analysis Batch: 127247

Client Sample ID: MWB-17(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	62		56.0		mg/L		10	20

Lab Sample ID: MB 660-127299/1
Matrix: Water
Analysis Batch: 127299

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/01/12 16:09	1

Lab Sample ID: LCS 660-127299/2
Matrix: Water
Analysis Batch: 127299

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	10000	9980		mg/L		100	80 - 120

Lab Sample ID: MB 660-127340/1
Matrix: Water
Analysis Batch: 127340

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/02/12 13:33	1

Lab Sample ID: LCS 660-127340/2
Matrix: Water
Analysis Batch: 127340

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	10000	9950		mg/L		100	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-127321/1
Matrix: Water
Analysis Batch: 127321

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			08/02/12 08:59	1

Lab Sample ID: LCS 660-127321/2
Matrix: Water
Analysis Batch: 127321

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	89.6		mg/L		90	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 640-94624/37
Matrix: Water
Analysis Batch: 94624

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	0.0014	U	0.010	0.0014	mg/L			07/27/12 18:05	1

Lab Sample ID: LCS 640-94624/39
Matrix: Water
Analysis Batch: 94624

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate			0.0500	0.0512		mg/L		102	90 - 110		

Lab Sample ID: LCSD 640-94624/42
Matrix: Water
Analysis Batch: 94624

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
ortho-Phosphate			0.0500	0.0510		mg/L		102	90 - 110	0	30

Lab Sample ID: 640-39703-F-2 MS
Matrix: Water
Analysis Batch: 94624

Client Sample ID: 640-39703-F-2 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate	0.0014		0.100	0.103		mg/L		103	90 - 110		

Lab Sample ID: 640-39703-F-2 MSD
Matrix: Water
Analysis Batch: 94624

Client Sample ID: 640-39703-F-2 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.0014		0.100	0.103		mg/L		103	90 - 110	0	30

Lab Sample ID: 640-39703-2 DU
Matrix: Water
Analysis Batch: 94624

Client Sample ID: SW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
ortho-Phosphate	0.0074	I		0.00748	I	mg/L				2	30

Method: SM 5220D - COD

Lab Sample ID: MB 660-127453/4-A
Matrix: Water
Analysis Batch: 127460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127453

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 660-127453/5-A
Matrix: Water
Analysis Batch: 127460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	215		mg/L		107	90 - 110

Lab Sample ID: 640-39703-2 MS
Matrix: Water
Analysis Batch: 127460

Client Sample ID: SW-2
Prep Type: Total/NA
Prep Batch: 127453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	61		100	156		mg/L		95	90 - 110

Lab Sample ID: 640-39703-2 MSD
Matrix: Water
Analysis Batch: 127460

Client Sample ID: SW-2
Prep Type: Total/NA
Prep Batch: 127453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	61		100	164		mg/L		102	90 - 110	5	20

Method: SM 5310C - TOC

Lab Sample ID: MB 640-94572/38
Matrix: Water
Analysis Batch: 94572

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	0.35	U	1.0	0.35	mg/L			07/29/12 01:09	1

Lab Sample ID: LCS 640-94572/39
Matrix: Water
Analysis Batch: 94572

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCSD 640-94572/40
Matrix: Water
Analysis Batch: 94572

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	10.0	10.4		mg/L		104	80 - 120	0	25

Lab Sample ID: MB 640-94609/6
Matrix: Water
Analysis Batch: 94609

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	0.35	U	1.0	0.35	mg/L			07/30/12 16:20	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 640-94609/7
Matrix: Water
Analysis Batch: 94609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.92		mg/L		99	80 - 120

Lab Sample ID: LCSD 640-94609/8
Matrix: Water
Analysis Batch: 94609

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	10.0	9.93		mg/L		99	80 - 120	0	25

Lab Sample ID: 640-39703-1 DU
Matrix: Water
Analysis Batch: 94609

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	84		84.6		mg/L		0.5	25

GC/MS VOA

Analysis Batch: 94569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	8260C	
640-39625-1 MS	MWB-29(S)c	Total/NA	Water	8260C	
640-39625-1 MSD	MWB-29(S)c	Total/NA	Water	8260C	
640-39625-2	MWB-29(I)c	Total/NA	Water	8260C	
640-39625-3	MWB-29(D)c	Total/NA	Water	8260C	
640-39625-4	MWB-31(D)b	Total/NA	Water	8260C	
640-39625-5	MWB-2(S)b	Total/NA	Water	8260C	
640-39625-6	MWB-2(I)b	Total/NA	Water	8260C	
640-39625-7	MWB-13(S)c	Total/NA	Water	8260C	
640-39625-8	MWB-13(I)c	Total/NA	Water	8260C	
640-39625-9	MWB-22(S)c	Total/NA	Water	8260C	
640-39625-10	MWB-12(S)c	Total/NA	Water	8260C	
640-39625-11	MWB-12(1)c	Total/NA	Water	8260C	
640-39625-12	MWB-12(D)c	Total/NA	Water	8260C	
640-39625-13	Trip Blank 01 39625	Total/NA	Water	8260C	
LCS 640-94569/2	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94569/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94569/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 94618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-8	MWB-19(S)c	Total/NA	Water	8260C	
LCS 640-94618/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94618/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94618/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 94641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-7	MWB-7(D)c	Total/NA	Water	8260C	
640-39703-1	SW-1	Total/NA	Water	8260C	
640-39703-2	SW-2	Total/NA	Water	8260C	
640-39703-3	SW-3	Total/NA	Water	8260C	
640-39703-4	Trip Blank 39703	Total/NA	Water	8260C	
LCS 640-94641/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94641/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94641/28	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 94650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	8260C	
640-39647-3	MWB-11(S)c	Total/NA	Water	8260C	
640-39647-4	MWB-20(S)c	Total/NA	Water	8260C	
640-39647-5	MWB-7(S)c	Total/NA	Water	8260C	
640-39647-6	MWB-7(1)c	Total/NA	Water	8260C	
LCS 640-94650/2	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94650/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94650/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 94651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-9	MWB-19(I)c	Total/NA	Water	8260C	
640-39647-10	MWB-17(S)c	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 94651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-11	MWB-17(I)c	Total/NA	Water	8260C	
640-39647-12	MWB-17(D)c	Total/NA	Water	8260C	
640-39647-13	MWB-3(S)b	Total/NA	Water	8260C	
640-39647-14	MWB-3(I)b	Total/NA	Water	8260C	
640-39647-15	MWB-27(I)c	Total/NA	Water	8260C	
640-39647-16	MWB-27(D)c	Total/NA	Water	8260C	
640-39647-17	MWB-19(D)c	Total/NA	Water	8260C	
640-39647-18	MWB-27(S)c	Total/NA	Water	8260C	
640-39647-19	Trip Blank 02 39647	Total/NA	Water	8260C	
LCS 640-94651/1	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94651/3	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94651/4	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 94681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-2	MWB-32(I)d	Total/NA	Water	8260C	
640-39701-3	MWB-32(S)d	Total/NA	Water	8260C	
640-39701-4	MWB-34(S)d	Total/NA	Water	8260C	
640-39701-5	MWB-34(I)d	Total/NA	Water	8260C	
640-39701-6	MWB-34(D)d	Total/NA	Water	8260C	
640-39701-7	MWB-33(S)d	Total/NA	Water	8260C	
640-39701-8	MWB-21(S)c	Total/NA	Water	8260C	
640-39701-9	MWB-32(D)d	Total/NA	Water	8260C	
640-39701-9 MS	MWB-32(D)d	Total/NA	Water	8260C	
640-39701-9 MSD	MWB-32(D)d	Total/NA	Water	8260C	
640-39701-10	Trip Blank 03 39701	Total/NA	Water	8260C	
LCS 640-94681/26	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94681/3	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94681/4	Method Blank	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 94826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	8011	
640-39647-2 MS	MWB-11(1)(R)c	Total/NA	Water	8011	
640-39647-2 MSD	MWB-11(1)(R)c	Total/NA	Water	8011	
640-39647-3	MWB-11(S)c	Total/NA	Water	8011	
640-39647-4	MWB-20(S)c	Total/NA	Water	8011	
640-39647-5	MWB-7(S)c	Total/NA	Water	8011	
640-39647-6	MWB-7(1)c	Total/NA	Water	8011	
640-39647-7	MWB-7(D)c	Total/NA	Water	8011	
640-39647-8	MWB-19(S)c	Total/NA	Water	8011	
640-39647-9	MWB-19(I)c	Total/NA	Water	8011	
640-39647-10	MWB-17(S)c	Total/NA	Water	8011	
640-39647-11	MWB-17(I)c	Total/NA	Water	8011	
640-39647-12	MWB-17(D)c	Total/NA	Water	8011	
640-39647-13	MWB-3(S)b	Total/NA	Water	8011	
640-39647-14	MWB-3(I)b	Total/NA	Water	8011	
640-39647-15	MWB-27(I)c	Total/NA	Water	8011	
640-39647-16	MWB-27(D)c	Total/NA	Water	8011	
640-39647-17	MWB-19(D)c	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 94826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-18	MWB-27(S)c	Total/NA	Water	8011	
640-39703-1	SW-1	Total/NA	Water	8011	
640-39703-2	SW-2	Total/NA	Water	8011	
640-39703-3	SW-3	Total/NA	Water	8011	
LCS 640-94826/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-94826/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-94826/1-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 94827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	8011	
640-39625-2	MWB-29(I)c	Total/NA	Water	8011	
640-39625-3	MWB-29(D)c	Total/NA	Water	8011	
640-39625-4	MWB-31(D)b	Total/NA	Water	8011	
640-39625-5	MWB-2(S)b	Total/NA	Water	8011	
640-39625-6	MWB-2(I)b	Total/NA	Water	8011	
640-39625-7	MWB-13(S)c	Total/NA	Water	8011	
640-39625-8	MWB-13(I)c	Total/NA	Water	8011	
640-39625-9	MWB-22(S)c	Total/NA	Water	8011	
640-39625-10	MWB-12(S)c	Total/NA	Water	8011	
640-39625-11	MWB-12(1)c	Total/NA	Water	8011	
640-39625-12	MWB-12(D)c	Total/NA	Water	8011	
640-39701-2	MWB-32(I)d	Total/NA	Water	8011	
640-39701-3	MWB-32(S)d	Total/NA	Water	8011	
640-39701-4	MWB-34(S)d	Total/NA	Water	8011	
640-39701-5	MWB-34(I)d	Total/NA	Water	8011	
640-39701-6	MWB-34(D)d	Total/NA	Water	8011	
640-39701-7	MWB-33(S)d	Total/NA	Water	8011	
640-39701-8	MWB-21(S)c	Total/NA	Water	8011	
640-39701-9	MWB-32(D)d	Total/NA	Water	8011	
640-39701-9 MS	MWB-32(D)d	Total/NA	Water	8011	
640-39701-9 MSD	MWB-32(D)d	Total/NA	Water	8011	
LCS 640-94827/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-94827/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-94827/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 94864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	8011	94827
640-39625-2	MWB-29(I)c	Total/NA	Water	8011	94827
640-39625-3	MWB-29(D)c	Total/NA	Water	8011	94827
640-39625-4	MWB-31(D)b	Total/NA	Water	8011	94827
640-39625-5	MWB-2(S)b	Total/NA	Water	8011	94827
640-39625-6	MWB-2(I)b	Total/NA	Water	8011	94827
640-39625-7	MWB-13(S)c	Total/NA	Water	8011	94827
640-39625-8	MWB-13(I)c	Total/NA	Water	8011	94827
640-39625-9	MWB-22(S)c	Total/NA	Water	8011	94827
640-39625-10	MWB-12(S)c	Total/NA	Water	8011	94827
640-39625-11	MWB-12(1)c	Total/NA	Water	8011	94827
640-39625-12	MWB-12(D)c	Total/NA	Water	8011	94827
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	8011	94826
640-39647-2 MS	MWB-11(1)(R)c	Total/NA	Water	8011	94826

GC Semi VOA (Continued)

Analysis Batch: 94864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-2 MSD	MWB-11(1)(R)c	Total/NA	Water	8011	94826
640-39647-3	MWB-11(S)c	Total/NA	Water	8011	94826
640-39647-4	MWB-20(S)c	Total/NA	Water	8011	94826
640-39647-5	MWB-7(S)c	Total/NA	Water	8011	94826
640-39647-6	MWB-7(1)c	Total/NA	Water	8011	94826
640-39647-7	MWB-7(D)c	Total/NA	Water	8011	94826
640-39647-8	MWB-19(S)c	Total/NA	Water	8011	94826
640-39647-9	MWB-19(I)c	Total/NA	Water	8011	94826
640-39647-10	MWB-17(S)c	Total/NA	Water	8011	94826
640-39647-11	MWB-17(I)c	Total/NA	Water	8011	94826
640-39647-12	MWB-17(D)c	Total/NA	Water	8011	94826
640-39647-13	MWB-3(S)b	Total/NA	Water	8011	94826
640-39647-14	MWB-3(I)b	Total/NA	Water	8011	94826
640-39647-15	MWB-27(I)c	Total/NA	Water	8011	94826
640-39647-16	MWB-27(D)c	Total/NA	Water	8011	94826
640-39647-17	MWB-19(D)c	Total/NA	Water	8011	94826
640-39647-18	MWB-27(S)c	Total/NA	Water	8011	94826
640-39701-2	MWB-32(I)d	Total/NA	Water	8011	94827
640-39701-3	MWB-32(S)d	Total/NA	Water	8011	94827
640-39701-4	MWB-34(S)d	Total/NA	Water	8011	94827
640-39701-5	MWB-34(I)d	Total/NA	Water	8011	94827
640-39701-6	MWB-34(D)d	Total/NA	Water	8011	94827
640-39701-7	MWB-33(S)d	Total/NA	Water	8011	94827
640-39701-8	MWB-21(S)c	Total/NA	Water	8011	94827
640-39701-9	MWB-32(D)d	Total/NA	Water	8011	94827
640-39701-9 MS	MWB-32(D)d	Total/NA	Water	8011	94827
640-39701-9 MSD	MWB-32(D)d	Total/NA	Water	8011	94827
640-39703-1	SW-1	Total/NA	Water	8011	94826
640-39703-2	SW-2	Total/NA	Water	8011	94826
640-39703-3	SW-3	Total/NA	Water	8011	94826
LCS 640-94826/2-A	Lab Control Sample	Total/NA	Water	8011	94826
LCS 640-94827/2-A	Lab Control Sample	Total/NA	Water	8011	94827
LCSD 640-94826/3-A	Lab Control Sample Dup	Total/NA	Water	8011	94826
LCSD 640-94827/3-A	Lab Control Sample Dup	Total/NA	Water	8011	94827
MB 640-94826/1-A	Method Blank	Total/NA	Water	8011	94826
MB 640-94827/1-A	Method Blank	Total/NA	Water	8011	94827

Metals

Prep Batch: 160031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	1631E	
640-39703-2	SW-2	Total/NA	Water	1631E	
640-39703-3	SW-3	Total/NA	Water	1631E	
LCS 400-160031/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-160031/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-160031/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 160078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	1631E	160031
LCS 400-160031/2-A	Lab Control Sample	Total/NA	Water	1631E	160031

Metals (Continued)

Analysis Batch: 160078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-160031/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	160031
MB 400-160031/1-A	Method Blank	Total/NA	Water	1631E	160031

Analysis Batch: 160087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-2	SW-2	Total/NA	Water	1631E	160031
640-39703-3	SW-3	Total/NA	Water	1631E	160031
LCS 400-160031/2-A	Lab Control Sample	Total/NA	Water	1631E	160031
LCSD 400-160031/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	160031
MB 400-160031/1-A	Method Blank	Total/NA	Water	1631E	160031

Prep Batch: 245014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total Recoverable	Water	3005A	
640-39703-2	SW-2	Total Recoverable	Water	3005A	
640-39703-3	SW-3	Total Recoverable	Water	3005A	
LCS 680-245014/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245014/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 245198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-1	Field Blank 01 39647	Total/NA	Water	7470A	
640-39647-1 MS	Field Blank 01 39647	Total/NA	Water	7470A	
640-39647-1 MSD	Field Blank 01 39647	Total/NA	Water	7470A	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	7470A	
640-39647-3	MWB-11(S)c	Total/NA	Water	7470A	
640-39647-4	MWB-20(S)c	Total/NA	Water	7470A	
640-39647-5	MWB-7(S)c	Total/NA	Water	7470A	
640-39647-6	MWB-7(1)c	Total/NA	Water	7470A	
640-39647-7	MWB-7(D)c	Total/NA	Water	7470A	
640-39647-8	MWB-19(S)c	Total/NA	Water	7470A	
640-39647-9	MWB-19(I)c	Total/NA	Water	7470A	
640-39647-10	MWB-17(S)c	Total/NA	Water	7470A	
640-39647-11	MWB-17(I)c	Total/NA	Water	7470A	
640-39647-12	MWB-17(D)c	Total/NA	Water	7470A	
640-39647-13	MWB-3(S)b	Total/NA	Water	7470A	
640-39647-14	MWB-3(I)b	Total/NA	Water	7470A	
640-39647-15	MWB-27(I)c	Total/NA	Water	7470A	
640-39647-16	MWB-27(D)c	Total/NA	Water	7470A	
640-39647-17	MWB-19(D)c	Total/NA	Water	7470A	
640-39647-18	MWB-27(S)c	Total/NA	Water	7470A	
LCS 680-245198/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-245198/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 245201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-1	Field Blank 02 39701	Total/NA	Water	7470A	
640-39701-1 MS	Field Blank 02 39701	Total/NA	Water	7470A	
640-39701-1 MSD	Field Blank 02 39701	Total/NA	Water	7470A	
640-39701-2	MWB-32(I)d	Total/NA	Water	7470A	
640-39701-3	MWB-32(S)d	Total/NA	Water	7470A	
640-39701-4	MWB-34(S)d	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 245201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-5	MWB-34(I)d	Total/NA	Water	7470A	
640-39701-6	MWB-34(D)d	Total/NA	Water	7470A	
640-39701-7	MWB-33(S)d	Total/NA	Water	7470A	
640-39701-8	MWB-21(S)c	Total/NA	Water	7470A	
640-39701-9	MWB-32(D)d	Total/NA	Water	7470A	
LCS 680-245201/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-245201/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 245202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	7470A	
640-39625-1 MS	MWB-29(S)c	Total/NA	Water	7470A	
640-39625-1 MSD	MWB-29(S)c	Total/NA	Water	7470A	
640-39625-2	MWB-29(I)c	Total/NA	Water	7470A	
640-39625-3	MWB-29(D)c	Total/NA	Water	7470A	
640-39625-4	MWB-31(D)b	Total/NA	Water	7470A	
640-39625-5	MWB-2(S)b	Total/NA	Water	7470A	
640-39625-6	MWB-2(I)b	Total/NA	Water	7470A	
640-39625-7	MWB-13(S)c	Total/NA	Water	7470A	
640-39625-8	MWB-13(I)c	Total/NA	Water	7470A	
640-39625-9	MWB-22(S)c	Total/NA	Water	7470A	
640-39625-10	MWB-12(S)c	Total/NA	Water	7470A	
640-39625-11	MWB-12(1)c	Total/NA	Water	7470A	
640-39625-12	MWB-12(D)c	Total/NA	Water	7470A	
LCS 680-245202/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-245202/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 245258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total Recoverable	Water	3005A	
640-39625-1 MS	MWB-29(S)c	Total Recoverable	Water	3005A	
640-39625-1 MSD	MWB-29(S)c	Total Recoverable	Water	3005A	
640-39625-2	MWB-29(I)c	Total Recoverable	Water	3005A	
640-39625-3	MWB-29(D)c	Total Recoverable	Water	3005A	
640-39625-4	MWB-31(D)b	Total Recoverable	Water	3005A	
640-39625-5	MWB-2(S)b	Total Recoverable	Water	3005A	
640-39625-6	MWB-2(I)b	Total Recoverable	Water	3005A	
640-39625-7	MWB-13(S)c	Total Recoverable	Water	3005A	
640-39625-8	MWB-13(I)c	Total Recoverable	Water	3005A	
640-39625-9	MWB-22(S)c	Total Recoverable	Water	3005A	
640-39625-10	MWB-12(S)c	Total Recoverable	Water	3005A	
640-39625-11	MWB-12(1)c	Total Recoverable	Water	3005A	
640-39625-12	MWB-12(D)c	Total Recoverable	Water	3005A	
LCS 680-245258/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245258/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 245259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-1	Field Blank 01 39647	Total Recoverable	Water	3005A	
640-39647-1 MS	Field Blank 01 39647	Total Recoverable	Water	3005A	
640-39647-1 MSD	Field Blank 01 39647	Total Recoverable	Water	3005A	
640-39647-2	MWB-11(1)(R)c	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 245259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-3	MWB-11(S)c	Total Recoverable	Water	3005A	
640-39647-4	MWB-20(S)c	Total Recoverable	Water	3005A	
640-39647-5	MWB-7(S)c	Total Recoverable	Water	3005A	
640-39647-6	MWB-7(1)c	Total Recoverable	Water	3005A	
640-39647-7	MWB-7(D)c	Total Recoverable	Water	3005A	
640-39647-8	MWB-19(S)c	Total Recoverable	Water	3005A	
640-39647-9	MWB-19(I)c	Total Recoverable	Water	3005A	
640-39647-10	MWB-17(S)c	Total Recoverable	Water	3005A	
640-39647-11	MWB-17(I)c	Total Recoverable	Water	3005A	
640-39647-12	MWB-17(D)c	Total Recoverable	Water	3005A	
640-39647-13	MWB-3(S)b	Total Recoverable	Water	3005A	
640-39647-14	MWB-3(I)b	Total Recoverable	Water	3005A	
640-39647-15	MWB-27(I)c	Total Recoverable	Water	3005A	
640-39647-16	MWB-27(D)c	Total Recoverable	Water	3005A	
640-39647-17	MWB-19(D)c	Total Recoverable	Water	3005A	
640-39647-17	MWB-19(D)c	Dissolved	Water	3005A	
640-39647-18	MWB-27(S)c	Total Recoverable	Water	3005A	
640-39647-18	MWB-27(S)c	Dissolved	Water	3005A	
LCS 680-245259/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245259/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 245261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-1	Field Blank 02 39701	Total Recoverable	Water	3005A	
640-39701-1 MS	Field Blank 02 39701	Total Recoverable	Water	3005A	
640-39701-1 MSD	Field Blank 02 39701	Total Recoverable	Water	3005A	
640-39701-2	MWB-32(I)d	Total Recoverable	Water	3005A	
640-39701-2	MWB-32(I)d	Dissolved	Water	3005A	
640-39701-3	MWB-32(S)d	Total Recoverable	Water	3005A	
640-39701-3	MWB-32(S)d	Dissolved	Water	3005A	
640-39701-4	MWB-34(S)d	Total Recoverable	Water	3005A	
640-39701-5	MWB-34(I)d	Total Recoverable	Water	3005A	
640-39701-6	MWB-34(D)d	Total Recoverable	Water	3005A	
640-39701-7	MWB-33(S)d	Total Recoverable	Water	3005A	
640-39701-8	MWB-21(S)c	Total Recoverable	Water	3005A	
640-39701-9	MWB-32(D)d	Total Recoverable	Water	3005A	
LCS 680-245261/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245261/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 245379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-1	Field Blank 01 39647	Total/NA	Water	7470A	245198
640-39647-1 MS	Field Blank 01 39647	Total/NA	Water	7470A	245198
640-39647-1 MSD	Field Blank 01 39647	Total/NA	Water	7470A	245198
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	7470A	245198
640-39647-3	MWB-11(S)c	Total/NA	Water	7470A	245198
640-39647-4	MWB-20(S)c	Total/NA	Water	7470A	245198
640-39647-5	MWB-7(S)c	Total/NA	Water	7470A	245198
640-39647-6	MWB-7(1)c	Total/NA	Water	7470A	245198
640-39647-7	MWB-7(D)c	Total/NA	Water	7470A	245198
640-39647-8	MWB-19(S)c	Total/NA	Water	7470A	245198
640-39647-9	MWB-19(I)c	Total/NA	Water	7470A	245198

Metals (Continued)

Analysis Batch: 245379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-10	MWB-17(S)c	Total/NA	Water	7470A	245198
640-39647-11	MWB-17(I)c	Total/NA	Water	7470A	245198
640-39647-12	MWB-17(D)c	Total/NA	Water	7470A	245198
640-39647-13	MWB-3(S)b	Total/NA	Water	7470A	245198
640-39647-14	MWB-3(I)b	Total/NA	Water	7470A	245198
640-39647-15	MWB-27(I)c	Total/NA	Water	7470A	245198
640-39647-16	MWB-27(D)c	Total/NA	Water	7470A	245198
640-39647-17	MWB-19(D)c	Total/NA	Water	7470A	245198
640-39647-18	MWB-27(S)c	Total/NA	Water	7470A	245198
640-39701-1	Field Blank 02 39701	Total/NA	Water	7470A	245201
640-39701-1 MS	Field Blank 02 39701	Total/NA	Water	7470A	245201
640-39701-1 MSD	Field Blank 02 39701	Total/NA	Water	7470A	245201
640-39701-2	MWB-32(I)d	Total/NA	Water	7470A	245201
640-39701-3	MWB-32(S)d	Total/NA	Water	7470A	245201
640-39701-4	MWB-34(S)d	Total/NA	Water	7470A	245201
640-39701-5	MWB-34(I)d	Total/NA	Water	7470A	245201
640-39701-6	MWB-34(D)d	Total/NA	Water	7470A	245201
640-39701-7	MWB-33(S)d	Total/NA	Water	7470A	245201
640-39701-8	MWB-21(S)c	Total/NA	Water	7470A	245201
640-39701-9	MWB-32(D)d	Total/NA	Water	7470A	245201
LCS 680-245198/2-A	Lab Control Sample	Total/NA	Water	7470A	245198
LCS 680-245201/2-A	Lab Control Sample	Total/NA	Water	7470A	245201
MB 680-245198/1-A	Method Blank	Total/NA	Water	7470A	245198
MB 680-245201/1-A	Method Blank	Total/NA	Water	7470A	245201

Analysis Batch: 245460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	7470A	245202
640-39625-1 MS	MWB-29(S)c	Total/NA	Water	7470A	245202
640-39625-1 MSD	MWB-29(S)c	Total/NA	Water	7470A	245202
640-39625-2	MWB-29(I)c	Total/NA	Water	7470A	245202
640-39625-3	MWB-29(D)c	Total/NA	Water	7470A	245202
640-39625-4	MWB-31(D)b	Total/NA	Water	7470A	245202
640-39625-5	MWB-2(S)b	Total/NA	Water	7470A	245202
640-39625-6	MWB-2(I)b	Total/NA	Water	7470A	245202
640-39625-7	MWB-13(S)c	Total/NA	Water	7470A	245202
640-39625-8	MWB-13(I)c	Total/NA	Water	7470A	245202
640-39625-9	MWB-22(S)c	Total/NA	Water	7470A	245202
640-39625-10	MWB-12(S)c	Total/NA	Water	7470A	245202
640-39625-11	MWB-12(1)c	Total/NA	Water	7470A	245202
640-39625-12	MWB-12(D)c	Total/NA	Water	7470A	245202
LCS 680-245202/2-A	Lab Control Sample	Total/NA	Water	7470A	245202
MB 680-245202/1-A	Method Blank	Total/NA	Water	7470A	245202

Analysis Batch: 245592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total Recoverable	Water	6020	245258
640-39625-1 MS	MWB-29(S)c	Total Recoverable	Water	6020	245258
640-39625-1 MSD	MWB-29(S)c	Total Recoverable	Water	6020	245258
640-39625-2	MWB-29(I)c	Total Recoverable	Water	6020	245258
640-39625-3	MWB-29(D)c	Total Recoverable	Water	6020	245258
640-39625-4	MWB-31(D)b	Total Recoverable	Water	6020	245258

Metals (Continued)

Analysis Batch: 245592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-5	MWB-2(S)b	Total Recoverable	Water	6020	245258
640-39625-6	MWB-2(I)b	Total Recoverable	Water	6020	245258
640-39625-7	MWB-13(S)c	Total Recoverable	Water	6020	245258
640-39625-8	MWB-13(I)c	Total Recoverable	Water	6020	245258
640-39625-9	MWB-22(S)c	Total Recoverable	Water	6020	245258
640-39625-10	MWB-12(S)c	Total Recoverable	Water	6020	245258
640-39625-11	MWB-12(1)c	Total Recoverable	Water	6020	245258
640-39625-12	MWB-12(D)c	Total Recoverable	Water	6020	245258
640-39647-1	Field Blank 01 39647	Total Recoverable	Water	6020	245259
640-39647-1 MS	Field Blank 01 39647	Total Recoverable	Water	6020	245259
640-39647-1 MSD	Field Blank 01 39647	Total Recoverable	Water	6020	245259
640-39647-2	MWB-11(1)(R)c	Total Recoverable	Water	6020	245259
640-39647-3	MWB-11(S)c	Total Recoverable	Water	6020	245259
640-39647-4	MWB-20(S)c	Total Recoverable	Water	6020	245259
640-39647-5	MWB-7(S)c	Total Recoverable	Water	6020	245259
640-39647-6	MWB-7(1)c	Total Recoverable	Water	6020	245259
640-39647-7	MWB-7(D)c	Total Recoverable	Water	6020	245259
640-39647-8	MWB-19(S)c	Total Recoverable	Water	6020	245259
640-39647-9	MWB-19(I)c	Total Recoverable	Water	6020	245259
640-39647-10	MWB-17(S)c	Total Recoverable	Water	6020	245259
640-39647-11	MWB-17(I)c	Total Recoverable	Water	6020	245259
640-39647-12	MWB-17(D)c	Total Recoverable	Water	6020	245259
640-39647-13	MWB-3(S)b	Total Recoverable	Water	6020	245259
640-39647-14	MWB-3(I)b	Total Recoverable	Water	6020	245259
640-39647-15	MWB-27(I)c	Total Recoverable	Water	6020	245259
640-39647-16	MWB-27(D)c	Total Recoverable	Water	6020	245259
640-39647-17	MWB-19(D)c	Total Recoverable	Water	6020	245259
640-39647-17	MWB-19(D)c	Dissolved	Water	6020	245259
640-39647-18	MWB-27(S)c	Total Recoverable	Water	6020	245259
640-39647-18	MWB-27(S)c	Dissolved	Water	6020	245259
640-39701-1	Field Blank 02 39701	Total Recoverable	Water	6020	245261
640-39701-1 MS	Field Blank 02 39701	Total Recoverable	Water	6020	245261
640-39701-1 MSD	Field Blank 02 39701	Total Recoverable	Water	6020	245261
640-39701-2	MWB-32(I)d	Total Recoverable	Water	6020	245261
640-39701-2	MWB-32(I)d	Dissolved	Water	6020	245261
640-39701-3	MWB-32(S)d	Total Recoverable	Water	6020	245261
640-39701-3	MWB-32(S)d	Dissolved	Water	6020	245261
640-39701-4	MWB-34(S)d	Total Recoverable	Water	6020	245261
640-39701-5	MWB-34(I)d	Total Recoverable	Water	6020	245261
640-39701-6	MWB-34(D)d	Total Recoverable	Water	6020	245261
640-39701-7	MWB-33(S)d	Total Recoverable	Water	6020	245261
640-39701-8	MWB-21(S)c	Total Recoverable	Water	6020	245261
640-39701-9	MWB-32(D)d	Total Recoverable	Water	6020	245261
640-39703-1	SW-1	Total Recoverable	Water	6020	245014
640-39703-2	SW-2	Total Recoverable	Water	6020	245014
640-39703-3	SW-3	Total Recoverable	Water	6020	245014
LCS 680-245014/2-A	Lab Control Sample	Total Recoverable	Water	6020	245014
LCS 680-245258/2-A	Lab Control Sample	Total Recoverable	Water	6020	245258
LCS 680-245259/2-A	Lab Control Sample	Total Recoverable	Water	6020	245259
LCS 680-245261/2-A	Lab Control Sample	Total Recoverable	Water	6020	245261
MB 680-245014/1-A	Method Blank	Total Recoverable	Water	6020	245014
MB 680-245258/1-A	Method Blank	Total Recoverable	Water	6020	245258

Metals (Continued)

Analysis Batch: 245592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-245259/1-A	Method Blank	Total Recoverable	Water	6020	245259
MB 680-245261/1-A	Method Blank	Total Recoverable	Water	6020	245261

Analysis Batch: 246091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 2340B	
640-39703-2	SW-2	Total/NA	Water	SM 2340B	
640-39703-3	SW-3	Total/NA	Water	SM 2340B	
MB 680-246091/7	Method Blank	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 94572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-2	SW-2	Total/NA	Water	SM 5310C	
LCS 640-94572/39	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 640-94572/40	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
MB 640-94572/38	Method Blank	Total/NA	Water	SM 5310C	

Analysis Batch: 94609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 5310C	
640-39703-1 DU	SW-1	Total/NA	Water	SM 5310C	
640-39703-3	SW-3	Total/NA	Water	SM 5310C	
LCS 640-94609/7	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 640-94609/8	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
MB 640-94609/6	Method Blank	Total/NA	Water	SM 5310C	

Analysis Batch: 94624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 4500 P E	
640-39703-2	SW-2	Total/NA	Water	SM 4500 P E	
640-39703-2 DU	SW-2	Total/NA	Water	SM 4500 P E	
640-39703-3	SW-3	Total/NA	Water	SM 4500 P E	
640-39703-F-2 MS	640-39703-F-2 MS	Total/NA	Water	SM 4500 P E	
640-39703-F-2 MSD	640-39703-F-2 MSD	Total/NA	Water	SM 4500 P E	
LCS 640-94624/39	Lab Control Sample	Total/NA	Water	SM 4500 P E	
LCSD 640-94624/42	Lab Control Sample Dup	Total/NA	Water	SM 4500 P E	
MB 640-94624/37	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 94908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	Nitrate by calc	
640-39625-2	MWB-29(I)c	Total/NA	Water	Nitrate by calc	
640-39625-3	MWB-29(D)c	Total/NA	Water	Nitrate by calc	
640-39625-4	MWB-31(D)b	Total/NA	Water	Nitrate by calc	
640-39625-5	MWB-2(S)b	Total/NA	Water	Nitrate by calc	
640-39625-6	MWB-2(I)b	Total/NA	Water	Nitrate by calc	
640-39625-7	MWB-13(S)c	Total/NA	Water	Nitrate by calc	
640-39625-8	MWB-13(I)c	Total/NA	Water	Nitrate by calc	
640-39625-9	MWB-22(S)c	Total/NA	Water	Nitrate by calc	
640-39625-10	MWB-12(S)c	Total/NA	Water	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 94908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-11	MWB-12(1)c	Total/NA	Water	Nitrate by calc	
640-39625-12	MWB-12(D)c	Total/NA	Water	Nitrate by calc	
640-39647-1	Field Blank 01 39647	Total/NA	Water	Nitrate by calc	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	Nitrate by calc	
640-39647-3	MWB-11(S)c	Total/NA	Water	Nitrate by calc	
640-39647-4	MWB-20(S)c	Total/NA	Water	Nitrate by calc	
640-39647-5	MWB-7(S)c	Total/NA	Water	Nitrate by calc	
640-39647-6	MWB-7(1)c	Total/NA	Water	Nitrate by calc	
640-39647-7	MWB-7(D)c	Total/NA	Water	Nitrate by calc	
640-39647-8	MWB-19(S)c	Total/NA	Water	Nitrate by calc	
640-39647-9	MWB-19(I)c	Total/NA	Water	Nitrate by calc	
640-39647-10	MWB-17(S)c	Total/NA	Water	Nitrate by calc	
640-39647-11	MWB-17(I)c	Total/NA	Water	Nitrate by calc	
640-39647-12	MWB-17(D)c	Total/NA	Water	Nitrate by calc	
640-39647-13	MWB-3(S)b	Total/NA	Water	Nitrate by calc	
640-39647-14	MWB-3(I)b	Total/NA	Water	Nitrate by calc	
640-39647-15	MWB-27(I)c	Total/NA	Water	Nitrate by calc	
640-39647-16	MWB-27(D)c	Total/NA	Water	Nitrate by calc	
640-39647-17	MWB-19(D)c	Total/NA	Water	Nitrate by calc	
640-39647-18	MWB-27(S)c	Total/NA	Water	Nitrate by calc	
640-39701-1	Field Blank 02 39701	Total/NA	Water	Nitrate by calc	
640-39701-2	MWB-32(I)d	Total/NA	Water	Nitrate by calc	
640-39701-3	MWB-32(S)d	Total/NA	Water	Nitrate by calc	
640-39701-4	MWB-34(S)d	Total/NA	Water	Nitrate by calc	
640-39701-5	MWB-34(I)d	Total/NA	Water	Nitrate by calc	
640-39701-6	MWB-34(D)d	Total/NA	Water	Nitrate by calc	
640-39701-7	MWB-33(S)d	Total/NA	Water	Nitrate by calc	
640-39701-8	MWB-21(S)c	Total/NA	Water	Nitrate by calc	
640-39701-9	MWB-32(D)d	Total/NA	Water	Nitrate by calc	
640-39703-1	SW-1	Total/NA	Water	Nitrate by calc	
640-39703-2	SW-2	Total/NA	Water	Nitrate by calc	
640-39703-3	SW-3	Total/NA	Water	Nitrate by calc	

Analysis Batch: 94909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	UnionizedNH3	
640-39703-2	SW-2	Total/NA	Water	UnionizedNH3	
640-39703-3	SW-3	Total/NA	Water	UnionizedNH3	

Analysis Batch: 127111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	SM 2540C	
640-39625-2	MWB-29(I)c	Total/NA	Water	SM 2540C	
LCS 660-127111/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127111/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 127130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-3	MWB-29(D)c	Total/NA	Water	SM 2540C	
640-39625-4	MWB-31(D)b	Total/NA	Water	SM 2540C	
640-39625-4 DU	MWB-31(D)b	Total/NA	Water	SM 2540C	
640-39625-5	MWB-2(S)b	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 127130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-6	MWB-2(I)b	Total/NA	Water	SM 2540C	
640-39625-7	MWB-13(S)c	Total/NA	Water	SM 2540C	
640-39625-8	MWB-13(I)c	Total/NA	Water	SM 2540C	
640-39625-9	MWB-22(S)c	Total/NA	Water	SM 2540C	
640-39625-10	MWB-12(S)c	Total/NA	Water	SM 2540C	
640-39625-11	MWB-12(1)c	Total/NA	Water	SM 2540C	
640-39625-12	MWB-12(D)c	Total/NA	Water	SM 2540C	
LCS 660-127130/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127130/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 127242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-1	Field Blank 01 39647	Total/NA	Water	SM 2540C	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	SM 2540C	
640-39647-3	MWB-11(S)c	Total/NA	Water	SM 2540C	
640-39647-4	MWB-20(S)c	Total/NA	Water	SM 2540C	
640-39647-5	MWB-7(S)c	Total/NA	Water	SM 2540C	
640-39647-6	MWB-7(1)c	Total/NA	Water	SM 2540C	
640-39647-7	MWB-7(D)c	Total/NA	Water	SM 2540C	
640-39647-8	MWB-19(S)c	Total/NA	Water	SM 2540C	
640-39647-9	MWB-19(I)c	Total/NA	Water	SM 2540C	
LCS 660-127242/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127242/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 127247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-10	MWB-17(S)c	Total/NA	Water	SM 2540C	
640-39647-10 DU	MWB-17(S)c	Total/NA	Water	SM 2540C	
640-39647-11	MWB-17(I)c	Total/NA	Water	SM 2540C	
640-39647-12	MWB-17(D)c	Total/NA	Water	SM 2540C	
640-39647-13	MWB-3(S)b	Total/NA	Water	SM 2540C	
640-39647-14	MWB-3(I)b	Total/NA	Water	SM 2540C	
640-39647-15	MWB-27(I)c	Total/NA	Water	SM 2540C	
640-39647-16	MWB-27(D)c	Total/NA	Water	SM 2540C	
640-39647-17	MWB-19(D)c	Total/NA	Water	SM 2540C	
640-39647-18	MWB-27(S)c	Total/NA	Water	SM 2540C	
LCS 660-127247/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127247/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 127299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-1	Field Blank 02 39701	Total/NA	Water	SM 2540C	
640-39701-2	MWB-32(I)d	Total/NA	Water	SM 2540C	
640-39701-3	MWB-32(S)d	Total/NA	Water	SM 2540C	
640-39701-4	MWB-34(S)d	Total/NA	Water	SM 2540C	
640-39701-5	MWB-34(I)d	Total/NA	Water	SM 2540C	
640-39701-6	MWB-34(D)d	Total/NA	Water	SM 2540C	
640-39701-7	MWB-33(S)d	Total/NA	Water	SM 2540C	
640-39701-8	MWB-21(S)c	Total/NA	Water	SM 2540C	
640-39701-9	MWB-32(D)d	Total/NA	Water	SM 2540C	
LCS 660-127299/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127299/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 127321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 2540D	
640-39703-2	SW-2	Total/NA	Water	SM 2540D	
640-39703-3	SW-3	Total/NA	Water	SM 2540D	
LCS 660-127321/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-127321/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 127340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 2540C	
640-39703-2	SW-2	Total/NA	Water	SM 2540C	
640-39703-3	SW-3	Total/NA	Water	SM 2540C	
LCS 660-127340/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127340/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 127453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 5220	
640-39703-2	SW-2	Total/NA	Water	SM 5220	
640-39703-2 MS	SW-2	Total/NA	Water	SM 5220	
640-39703-2 MSD	SW-2	Total/NA	Water	SM 5220	
640-39703-3	SW-3	Total/NA	Water	SM 5220	
LCS 660-127453/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-127453/4-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 127460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	SM 5220D	127453
640-39703-2	SW-2	Total/NA	Water	SM 5220D	127453
640-39703-2 MS	SW-2	Total/NA	Water	SM 5220D	127453
640-39703-2 MSD	SW-2	Total/NA	Water	SM 5220D	127453
640-39703-3	SW-3	Total/NA	Water	SM 5220D	127453
LCS 660-127453/5-A	Lab Control Sample	Total/NA	Water	SM 5220D	127453
MB 660-127453/4-A	Method Blank	Total/NA	Water	SM 5220D	127453

Analysis Batch: 245617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	350.1	
640-39625-2	MWB-29(I)c	Total/NA	Water	350.1	
640-39625-3	MWB-29(D)c	Total/NA	Water	350.1	
640-39625-4	MWB-31(D)b	Total/NA	Water	350.1	
640-39625-5	MWB-2(S)b	Total/NA	Water	350.1	
640-39625-6	MWB-2(I)b	Total/NA	Water	350.1	
640-39625-7	MWB-13(S)c	Total/NA	Water	350.1	
640-39625-7 DU	MWB-13(S)c	Total/NA	Water	350.1	
640-39625-8	MWB-13(I)c	Total/NA	Water	350.1	
640-39625-9	MWB-22(S)c	Total/NA	Water	350.1	
640-39625-10	MWB-12(S)c	Total/NA	Water	350.1	
640-39625-11	MWB-12(1)c	Total/NA	Water	350.1	
640-39625-12	MWB-12(D)c	Total/NA	Water	350.1	
LCS 680-245617/7	Lab Control Sample	Total/NA	Water	350.1	
MB 680-245617/6	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 245778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-1	Field Blank 01 39647	Total/NA	Water	350.1	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	350.1	
640-39647-2 MS	MWB-11(1)(R)c	Total/NA	Water	350.1	
640-39647-2 MSD	MWB-11(1)(R)c	Total/NA	Water	350.1	
640-39647-3	MWB-11(S)c	Total/NA	Water	350.1	
640-39647-4	MWB-20(S)c	Total/NA	Water	350.1	
640-39647-5	MWB-7(S)c	Total/NA	Water	350.1	
640-39647-6	MWB-7(1)c	Total/NA	Water	350.1	
640-39647-7	MWB-7(D)c	Total/NA	Water	350.1	
640-39647-8	MWB-19(S)c	Total/NA	Water	350.1	
640-39647-9	MWB-19(I)c	Total/NA	Water	350.1	
640-39647-10	MWB-17(S)c	Total/NA	Water	350.1	
640-39647-11	MWB-17(I)c	Total/NA	Water	350.1	
640-39647-11 DU	MWB-17(I)c	Total/NA	Water	350.1	
640-39647-12	MWB-17(D)c	Total/NA	Water	350.1	
640-39647-13	MWB-3(S)b	Total/NA	Water	350.1	
640-39647-14	MWB-3(I)b	Total/NA	Water	350.1	
640-39647-15	MWB-27(I)c	Total/NA	Water	350.1	
640-39647-16	MWB-27(D)c	Total/NA	Water	350.1	
640-39647-17	MWB-19(D)c	Total/NA	Water	350.1	
640-39647-18	MWB-27(S)c	Total/NA	Water	350.1	
LCS 680-245778/2	Lab Control Sample	Total/NA	Water	350.1	
MB 680-245778/1	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 245779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-1	Field Blank 02 39701	Total/NA	Water	350.1	
640-39701-2	MWB-32(I)d	Total/NA	Water	350.1	
640-39701-2 MS	MWB-32(I)d	Total/NA	Water	350.1	
640-39701-2 MSD	MWB-32(I)d	Total/NA	Water	350.1	
640-39701-3	MWB-32(S)d	Total/NA	Water	350.1	
640-39701-4	MWB-34(S)d	Total/NA	Water	350.1	
640-39701-5	MWB-34(I)d	Total/NA	Water	350.1	
640-39701-6	MWB-34(D)d	Total/NA	Water	350.1	
640-39701-7	MWB-33(S)d	Total/NA	Water	350.1	
640-39701-8	MWB-21(S)c	Total/NA	Water	350.1	
640-39701-9	MWB-32(D)d	Total/NA	Water	350.1	
LCS 680-245779/2	Lab Control Sample	Total/NA	Water	350.1	
MB 680-245779/1	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 245912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	353.2	
640-39625-1 MS	MWB-29(S)c	Total/NA	Water	353.2	
640-39625-1 MSD	MWB-29(S)c	Total/NA	Water	353.2	
640-39625-2	MWB-29(I)c	Total/NA	Water	353.2	
640-39625-3	MWB-29(D)c	Total/NA	Water	353.2	
640-39625-4	MWB-31(D)b	Total/NA	Water	353.2	
640-39625-5	MWB-2(S)b	Total/NA	Water	353.2	
640-39625-6	MWB-2(I)b	Total/NA	Water	353.2	
640-39625-7	MWB-13(S)c	Total/NA	Water	353.2	
640-39625-8	MWB-13(I)c	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 245912 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-9	MWB-22(S)c	Total/NA	Water	353.2	
640-39625-10	MWB-12(S)c	Total/NA	Water	353.2	
640-39625-11	MWB-12(1)c	Total/NA	Water	353.2	
640-39625-11 DU	MWB-12(1)c	Total/NA	Water	353.2	
640-39625-12	MWB-12(D)c	Total/NA	Water	353.2	
640-39647-1	Field Blank 01 39647	Total/NA	Water	353.2	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	353.2	
640-39647-3	MWB-11(S)c	Total/NA	Water	353.2	
640-39647-4	MWB-20(S)c	Total/NA	Water	353.2	
640-39647-5	MWB-7(S)c	Total/NA	Water	353.2	
640-39647-6	MWB-7(1)c	Total/NA	Water	353.2	
640-39647-7	MWB-7(D)c	Total/NA	Water	353.2	
640-39647-8	MWB-19(S)c	Total/NA	Water	353.2	
LCS 680-245912/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-245912/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 245913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-9	MWB-19(I)c	Total/NA	Water	353.2	
640-39647-9 MS	MWB-19(I)c	Total/NA	Water	353.2	
640-39647-9 MSD	MWB-19(I)c	Total/NA	Water	353.2	
640-39647-10	MWB-17(S)c	Total/NA	Water	353.2	
640-39647-11	MWB-17(I)c	Total/NA	Water	353.2	
640-39647-12	MWB-17(D)c	Total/NA	Water	353.2	
640-39647-13	MWB-3(S)b	Total/NA	Water	353.2	
640-39647-14	MWB-3(I)b	Total/NA	Water	353.2	
640-39647-15	MWB-27(I)c	Total/NA	Water	353.2	
640-39647-16	MWB-27(D)c	Total/NA	Water	353.2	
640-39647-17	MWB-19(D)c	Total/NA	Water	353.2	
640-39647-18	MWB-27(S)c	Total/NA	Water	353.2	
640-39701-1	Field Blank 02 39701	Total/NA	Water	353.2	
640-39701-1 DU	Field Blank 02 39701	Total/NA	Water	353.2	
640-39701-2	MWB-32(I)d	Total/NA	Water	353.2	
640-39701-3	MWB-32(S)d	Total/NA	Water	353.2	
640-39701-4	MWB-34(S)d	Total/NA	Water	353.2	
640-39701-5	MWB-34(I)d	Total/NA	Water	353.2	
640-39701-6	MWB-34(D)d	Total/NA	Water	353.2	
640-39701-7	MWB-33(S)d	Total/NA	Water	353.2	
640-39701-8	MWB-21(S)c	Total/NA	Water	353.2	
640-39701-9	MWB-32(D)d	Total/NA	Water	353.2	
LCS 680-245913/4	Lab Control Sample	Total/NA	Water	353.2	
MB 680-245913/3	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 245914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	353.2	
640-39703-2	SW-2	Total/NA	Water	353.2	
640-39703-3	SW-3	Total/NA	Water	353.2	
LCS 680-245914/6	Lab Control Sample	Total/NA	Water	353.2	
MB 680-245914/3	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 246000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	300.0	
640-39625-1 MS	MWB-29(S)c	Total/NA	Water	300.0	
640-39625-1 MSD	MWB-29(S)c	Total/NA	Water	300.0	
640-39625-2	MWB-29(I)c	Total/NA	Water	300.0	
640-39625-3	MWB-29(D)c	Total/NA	Water	300.0	
640-39625-5	MWB-2(S)b	Total/NA	Water	300.0	
640-39625-6	MWB-2(I)b	Total/NA	Water	300.0	
640-39625-7	MWB-13(S)c	Total/NA	Water	300.0	
640-39625-8	MWB-13(I)c	Total/NA	Water	300.0	
640-39625-9	MWB-22(S)c	Total/NA	Water	300.0	
640-39625-9 MS	MWB-22(S)c	Total/NA	Water	300.0	
640-39625-10	MWB-12(S)c	Total/NA	Water	300.0	
640-39625-11	MWB-12(1)c	Total/NA	Water	300.0	
640-39625-12	MWB-12(D)c	Total/NA	Water	300.0	
640-39647-1	Field Blank 01 39647	Total/NA	Water	300.0	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	300.0	
640-39647-3	MWB-11(S)c	Total/NA	Water	300.0	
640-39647-4	MWB-20(S)c	Total/NA	Water	300.0	
640-39647-5	MWB-7(S)c	Total/NA	Water	300.0	
LCS 680-246000/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246000/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246000/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 246001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39647-6	MWB-7(1)c	Total/NA	Water	300.0	
640-39647-6 MS	MWB-7(1)c	Total/NA	Water	300.0	
640-39647-6 MSD	MWB-7(1)c	Total/NA	Water	300.0	
640-39647-7	MWB-7(D)c	Total/NA	Water	300.0	
640-39647-8	MWB-19(S)c	Total/NA	Water	300.0	
640-39647-9	MWB-19(I)c	Total/NA	Water	300.0	
640-39647-10	MWB-17(S)c	Total/NA	Water	300.0	
640-39647-11	MWB-17(I)c	Total/NA	Water	300.0	
640-39647-12	MWB-17(D)c	Total/NA	Water	300.0	
640-39647-13	MWB-3(S)b	Total/NA	Water	300.0	
640-39647-14	MWB-3(I)b	Total/NA	Water	300.0	
640-39647-14 MS	MWB-3(I)b	Total/NA	Water	300.0	
640-39647-15	MWB-27(I)c	Total/NA	Water	300.0	
640-39647-16	MWB-27(D)c	Total/NA	Water	300.0	
640-39647-17	MWB-19(D)c	Total/NA	Water	300.0	
640-39647-18	MWB-27(S)c	Total/NA	Water	300.0	
640-39701-1	Field Blank 02 39701	Total/NA	Water	300.0	
640-39701-2	MWB-32(I)d	Total/NA	Water	300.0	
640-39701-4	MWB-34(S)d	Total/NA	Water	300.0	
LCS 680-246001/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246001/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246001/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 246004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-5	MWB-34(I)d	Total/NA	Water	300.0	
640-39701-5 MS	MWB-34(I)d	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 246004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-6	MWB-34(D)d	Total/NA	Water	300.0	
640-39701-6 DU	MWB-34(D)d	Total/NA	Water	300.0	
640-39701-7	MWB-33(S)d	Total/NA	Water	300.0	
640-39701-8	MWB-21(S)c	Total/NA	Water	300.0	
640-39701-9	MWB-32(D)d	Total/NA	Water	300.0	
LCS 680-246004/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246004/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246004/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 246007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-4	MWB-31(D)b	Total/NA	Water	300.0	
LCS 680-246007/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246007/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246007/2	Method Blank	Total/NA	Water	300.0	

Prep Batch: 246227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	365.2/365.3/365	
640-39703-2	SW-2	Total/NA	Water	365.2/365.3/365	
640-39703-3	SW-3	Total/NA	Water	365.2/365.3/365	
LCS 680-246227/1-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 680-246227/2-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 246233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39701-3	MWB-32(S)d	Total/NA	Water	300.0	
LCS 680-246233/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246233/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246233/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 246338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	365.4	246227
640-39703-2	SW-2	Total/NA	Water	365.4	246227
640-39703-3	SW-3	Total/NA	Water	365.4	246227
LCS 680-246227/1-A	Lab Control Sample	Total/NA	Water	365.4	246227
MB 680-246227/2-A	Method Blank	Total/NA	Water	365.4	246227

Analysis Batch: 246342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-1	SW-1	Total/NA	Water	Total Nitrogen	
640-39703-2	SW-2	Total/NA	Water	Total Nitrogen	
640-39703-3	SW-3	Total/NA	Water	Total Nitrogen	

Field Service / Mobile Lab

Analysis Batch: 94796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-1	MWB-29(S)c	Total/NA	Water	Field Sampling	
640-39625-2	MWB-29(I)c	Total/NA	Water	Field Sampling	
640-39625-3	MWB-29(D)c	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 94796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39625-4	MWB-31(D)b	Total/NA	Water	Field Sampling	
640-39625-5	MWB-2(S)b	Total/NA	Water	Field Sampling	
640-39625-6	MWB-2(I)b	Total/NA	Water	Field Sampling	
640-39625-7	MWB-13(S)c	Total/NA	Water	Field Sampling	
640-39625-8	MWB-13(I)c	Total/NA	Water	Field Sampling	
640-39625-9	MWB-22(S)c	Total/NA	Water	Field Sampling	
640-39625-10	MWB-12(S)c	Total/NA	Water	Field Sampling	
640-39625-11	MWB-12(1)c	Total/NA	Water	Field Sampling	
640-39625-12	MWB-12(D)c	Total/NA	Water	Field Sampling	
640-39647-2	MWB-11(1)(R)c	Total/NA	Water	Field Sampling	
640-39647-3	MWB-11(S)c	Total/NA	Water	Field Sampling	
640-39647-4	MWB-20(S)c	Total/NA	Water	Field Sampling	
640-39647-5	MWB-7(S)c	Total/NA	Water	Field Sampling	
640-39647-6	MWB-7(1)c	Total/NA	Water	Field Sampling	
640-39647-7	MWB-7(D)c	Total/NA	Water	Field Sampling	
640-39647-8	MWB-19(S)c	Total/NA	Water	Field Sampling	
640-39647-9	MWB-19(I)c	Total/NA	Water	Field Sampling	
640-39647-10	MWB-17(S)c	Total/NA	Water	Field Sampling	
640-39647-11	MWB-17(I)c	Total/NA	Water	Field Sampling	
640-39647-12	MWB-17(D)c	Total/NA	Water	Field Sampling	
640-39647-13	MWB-3(S)b	Total/NA	Water	Field Sampling	
640-39647-14	MWB-3(I)b	Total/NA	Water	Field Sampling	
640-39647-15	MWB-27(I)c	Total/NA	Water	Field Sampling	
640-39647-16	MWB-27(D)c	Total/NA	Water	Field Sampling	
640-39647-17	MWB-19(D)c	Total/NA	Water	Field Sampling	
640-39647-18	MWB-27(S)c	Total/NA	Water	Field Sampling	
640-39701-2	MWB-32(I)d	Total/NA	Water	Field Sampling	
640-39701-3	MWB-32(S)d	Total/NA	Water	Field Sampling	
640-39701-4	MWB-34(S)d	Total/NA	Water	Field Sampling	
640-39701-5	MWB-34(I)d	Total/NA	Water	Field Sampling	
640-39701-6	MWB-34(D)d	Total/NA	Water	Field Sampling	
640-39701-7	MWB-33(S)d	Total/NA	Water	Field Sampling	
640-39701-8	MWB-21(S)c	Total/NA	Water	Field Sampling	
640-39701-9	MWB-32(D)d	Total/NA	Water	Field Sampling	
640-39703-1	SW-1	Total/NA	Water	Field Sampling	
640-39703-2	SW-2	Total/NA	Water	Field Sampling	
640-39703-3	SW-3	Total/NA	Water	Field Sampling	

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-39625-1

Date Collected: 07/23/12 17:12

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 02:12	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 21:57	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:08	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 07:18	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127111	07/27/12 09:59	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 15:14	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:22	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 16:34	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 17:11	SF	TAL TAL

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-39625-2

Date Collected: 07/23/12 16:38

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 02:33	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 22:12	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:18	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 07:48	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127111	07/27/12 09:59	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:32	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:26	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 17:12	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 16:37	SF	TAL TAL

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-39625-3

Date Collected: 07/23/12 15:59

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 02:54	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 22:26	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:27	RAM	TAL SAV

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-39625-3

Date Collected: 07/23/12 15:59

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 07:54	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:32	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:27	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 17:24	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 15:58	SF	TAL TAL

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-39625-4

Date Collected: 07/23/12 15:17

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 03:15	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 22:41	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:31	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:00	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:32	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:28	JR	TAL SAV
Total/NA	Analysis	300.0		5	246007	08/07/12 18:18	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 15:16	SF	TAL TAL

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-39625-5

Date Collected: 07/23/12 14:26

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 03:35	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 22:55	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:34	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:18	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-39625-5

Date Collected: 07/23/12 14:26

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	245912	08/07/12 12:29	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 17:51	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 14:25	SF	TAL TAL

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-39625-6

Date Collected: 07/23/12 13:53

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 03:56	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 23:10	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:38	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:24	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:30	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 18:03	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 13:52	SF	TAL TAL

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-39625-7

Date Collected: 07/23/12 13:16

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 04:17	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 23:24	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:41	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:30	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:34	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 18:16	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 13:15	SF	TAL TAL

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-39625-8

Date Collected: 07/23/12 12:44

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 04:38	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 23:39	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:44	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:36	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:35	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 18:28	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 12:43	SF	TAL TAL

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-39625-9

Date Collected: 07/23/12 12:09

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 04:59	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 23:53	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:48	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:42	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:36	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 19:18	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 12:08	SF	TAL TAL

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-39625-10

Date Collected: 07/23/12 11:37

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 05:20	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 00:08	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:51	RAM	TAL SAV

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-39625-10

Date Collected: 07/23/12 11:37

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:48	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:38	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 19:43	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 11:36	SF	TAL TAL

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-39625-11

Date Collected: 07/23/12 11:06

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 05:41	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 00:22	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:54	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 08:54	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:39	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 19:55	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 11:05	SF	TAL TAL

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-39625-12

Date Collected: 07/23/12 10:34

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 06:02	LAG	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 00:37	JPB	TAL TAL
Total/NA	Prep	7470A			245202	07/31/12 18:44	UU	TAL SAV
Total/NA	Analysis	7470A		1	245460	08/02/12 13:58	RAM	TAL SAV
Total Recoverable	Prep	3005A			245258	08/01/12 10:40	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 09:00	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127130	07/27/12 14:04	TO	TAL TAM
Total/NA	Analysis	350.1		1	245617	08/03/12 14:41	JR	TAL SAV

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-39625-12

Date Collected: 07/23/12 10:34

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	245912	08/07/12 12:41	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 20:07	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/23/12 10:33	SF	TAL TAL

Client Sample ID: Trip Blank 01 39625

Lab Sample ID: 640-39625-13

Date Collected: 07/23/12 00:00

Matrix: Water

Date Received: 07/25/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94569	07/27/12 01:51	LAG	TAL TAL

Client Sample ID: Field Blank 01 39647

Lab Sample ID: 640-39647-1

Date Collected: 07/24/12 18:00

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:12	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 09:30	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:42	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 20:20	PAT	TAL SAV

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

Lab Sample ID: 640-39647-2

Date Collected: 07/24/12 17:41

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94650	07/27/12 17:32	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 02:19	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:28	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:00	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:44	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 20:32	PAT	TAL SAV

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

Lab Sample ID: 640-39647-2

Date Collected: 07/24/12 17:41

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 17:40	SF	TAL TAL

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-39647-3

Date Collected: 07/24/12 17:08

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94650	07/27/12 17:53	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 02:33	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:31	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:06	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:45	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 20:45	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 17:07	SF	TAL TAL

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-39647-4

Date Collected: 07/24/12 16:34

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94650	07/27/12 18:14	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 02:47	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:34	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:12	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:49	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 20:57	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 16:33	SF	TAL TAL

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-39647-5

Date Collected: 07/24/12 16:00

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94650	07/27/12 18:35	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 03:02	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:38	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:30	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:50	JR	TAL SAV
Total/NA	Analysis	300.0		5	246000	08/06/12 21:09	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 15:59	SF	TAL TAL

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-39647-6

Date Collected: 07/24/12 15:29

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94650	07/27/12 18:56	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 03:16	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:41	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:36	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:51	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 22:11	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 15:28	SF	TAL TAL

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-39647-7

Date Collected: 07/24/12 14:57

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 16:20	LS	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 03:31	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:44	BCB	TAL SAV

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-39647-7

Date Collected: 07/24/12 14:57

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:42	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:52	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 22:49	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 14:56	SF	TAL TAL

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-39647-8

Date Collected: 07/24/12 14:20

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94618	07/30/12 16:01	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 03:45	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:47	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:48	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:45	JR	TAL SAV
Total/NA	Analysis	353.2		1	245912	08/07/12 12:53	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 23:01	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 14:19	SF	TAL TAL

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-39647-9

Date Collected: 07/24/12 13:49

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 16:21	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 03:59	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 18:51	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 10:54	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127242	07/31/12 15:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-39647-9

Date Collected: 07/24/12 13:49

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	245913	08/07/12 12:57	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 23:13	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 13:48	SF	TAL TAL

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-39647-10

Date Collected: 07/24/12 12:28

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 16:43	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 04:14	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:00	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:00	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:03	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 23:26	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 12:27	SF	TAL TAL

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-39647-11

Date Collected: 07/24/12 11:54

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 17:04	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 04:28	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:04	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:06	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:04	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 23:38	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 11:53	SF	TAL TAL

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-39647-12

Date Collected: 07/24/12 11:20

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 17:25	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 04:42	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:07	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:12	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:05	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/06/12 23:51	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 11:19	SF	TAL TAL

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-39647-13

Date Collected: 07/24/12 10:46

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 18:08	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 04:57	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:10	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:18	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:07	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 00:03	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 10:45	SF	TAL TAL

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-39647-14

Date Collected: 07/24/12 10:14

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 18:29	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 05:11	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:13	BCB	TAL SAV

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-39647-14

Date Collected: 07/24/12 10:14

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:24	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:08	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 00:40	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 10:13	SF	TAL TAL

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-39647-15

Date Collected: 07/24/12 08:38

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 18:50	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 05:26	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:16	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:42	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:09	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 01:05	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 08:37	SF	TAL TAL

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-39647-16

Date Collected: 07/24/12 08:09

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 19:11	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 05:40	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:19	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:48	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-39647-16

Date Collected: 07/24/12 08:09

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	245913	08/07/12 13:10	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 01:18	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 08:08	SF	TAL TAL

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-39647-17

Date Collected: 07/24/12 13:11

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 19:33	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 05:55	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:23	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 11:54	BR	TAL SAV
Dissolved	Prep	3005A			245259	08/01/12 10:42	VHB	TAL SAV
Dissolved	Analysis	6020		1	245592	08/03/12 12:00	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 14:54	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:12	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 01:30	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 13:10	SF	TAL TAL

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-39647-18

Date Collected: 07/24/12 09:09

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 23:46	LAG	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 06:09	JPB	TAL TAL
Total/NA	Prep	7470A			245198	07/31/12 17:55	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:26	BCB	TAL SAV
Total Recoverable	Prep	3005A			245259	08/01/12 10:46	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 12:06	BR	TAL SAV
Dissolved	Prep	3005A			245259	08/01/12 10:47	VHB	TAL SAV
Dissolved	Analysis	6020		1	245592	08/03/12 12:12	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127247	07/31/12 17:45	TO	TAL TAM
Total/NA	Analysis	350.1		1	245778	08/06/12 15:01	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:13	JR	TAL SAV

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-39647-18

Date Collected: 07/24/12 09:09

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	246001	08/07/12 01:42	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/24/12 09:08	SF	TAL TAL

Client Sample ID: Trip Blank 02 39647

Lab Sample ID: 640-39647-19

Date Collected: 07/24/12 00:00

Matrix: Water

Date Received: 07/25/12 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94651	07/28/12 17:47	LAG	TAL TAL

Client Sample ID: Field Blank 02 39701

Lab Sample ID: 640-39701-1

Date Collected: 07/25/12 15:11

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:49	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 22:06	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:14	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 01:55	PAT	TAL SAV

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-39701-2

Date Collected: 07/25/12 10:10

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 03:31	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 19:56	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 19:59	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 22:36	BR	TAL SAV
Dissolved	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Dissolved	Analysis	6020		1	245592	08/02/12 22:42	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:19	JR	TAL SAV

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-39701-2

Date Collected: 07/25/12 10:10

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	246001	08/07/12 02:07	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 10:09	SF	TAL TAL

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-39701-3

Date Collected: 07/25/12 10:43

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 03:53	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 20:10	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:02	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:00	BR	TAL SAV
Dissolved	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Dissolved	Analysis	6020		1	245592	08/02/12 23:06	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:20	JR	TAL SAV
Total/NA	Analysis	300.0		10	246233	08/09/12 11:03	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 10:42	SF	TAL TAL

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-39701-4

Date Collected: 07/25/12 12:36

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 04:15	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 20:25	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:05	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:12	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:21	JR	TAL SAV
Total/NA	Analysis	300.0		5	246001	08/07/12 02:32	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 12:35	SF	TAL TAL

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-39701-5

Date Collected: 07/25/12 12:02

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 04:36	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 20:54	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:09	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:18	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:22	JR	TAL SAV
Total/NA	Analysis	300.0		5	246004	08/07/12 11:16	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 12:01	SF	TAL TAL

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-39701-6

Date Collected: 07/25/12 11:27

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 04:58	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 21:09	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:20	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:24	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:24	JR	TAL SAV
Total/NA	Analysis	300.0		5	246004	08/07/12 11:41	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 11:26	SF	TAL TAL

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-39701-7

Date Collected: 07/25/12 08:57

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 05:19	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 21:24	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:23	BCB	TAL SAV

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-39701-7

Date Collected: 07/25/12 08:57

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:30	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:25	JR	TAL SAV
Total/NA	Analysis	300.0		5	246004	08/07/12 12:06	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 08:56	SF	TAL TAL

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-39701-8

Date Collected: 07/25/12 08:25

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 05:41	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 21:38	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:26	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:36	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 15:24	JR	TAL SAV
Total/NA	Analysis	353.2		1	245913	08/07/12 13:26	JR	TAL SAV
Total/NA	Analysis	300.0		5	246004	08/07/12 12:18	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 08:24	SF	TAL TAL

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-39701-9

Date Collected: 07/25/12 09:32

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 06:03	LS	TAL TAL
Total/NA	Prep	8011			94827	08/06/12 12:42	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 19:41	JPB	TAL TAL
Total/NA	Prep	7470A			245201	07/31/12 18:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	245379	08/01/12 20:30	BCB	TAL SAV
Total Recoverable	Prep	3005A			245261	08/01/12 10:50	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/02/12 23:42	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	350.1		1	245779	08/06/12 16:02	JR	TAL SAV

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-39701-9

Date Collected: 07/25/12 09:32

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	245913	08/07/12 13:27	JR	TAL SAV
Total/NA	Analysis	300.0		5	246004	08/07/12 12:30	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/25/12 09:31	SF	TAL TAL

Client Sample ID: Trip Blank 03 39701

Lab Sample ID: 640-39701-10

Date Collected: 07/25/12 00:00

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94681	08/01/12 06:24	LS	TAL TAL

Client Sample ID: SW-1

Lab Sample ID: 640-39703-1

Date Collected: 07/26/12 08:00

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 17:04	LS	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 06:23	JPB	TAL TAL
Total/NA	Prep	1631E			160031	07/31/12 15:00	VLC	TAL PEN
Total/NA	Analysis	1631E		1	160078	08/07/12 13:49	VLC	TAL PEN
Total Recoverable	Prep	3005A			245014	07/30/12 16:27	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 06:36	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	246091	08/03/12 06:36	CE	TAL SAV
Total/NA	Analysis	SM 5310C		5	94609	07/30/12 17:29	MF	TAL TAL
Total/NA	Analysis	SM 4500 P E		1	94624	07/27/12 18:25	AJN	TAL TAL
Total/NA	Analysis	Nitrate by calc		5	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	UnionizedNH3		1	94909	08/09/12 14:46	TBW	TAL TAL
Total/NA	Analysis	SM 2540D		1	127321	08/02/12 08:59	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	127340	08/02/12 13:33	TO	TAL TAM
Total/NA	Prep	SM 5220			127453	08/06/12 13:00	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	127460		RWF	TAL TAM
						(Start) 08/06/12 16:10		
						(End) 08/06/12 16:30		
Total/NA	Analysis	353.2		5	245914	08/07/12 14:00	JR	TAL SAV
Total/NA	Prep	365.2/365.3/365			246227	08/09/12 08:43	MAP	TAL SAV
Total/NA	Analysis	365.4		1	246338	08/10/12 14:32	JR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	246342	08/10/12 16:06	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/26/12 08:00	SF	TAL TAL

Client Sample ID: SW-2

Lab Sample ID: 640-39703-2

Date Collected: 07/26/12 07:00

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 17:25	LS	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 06:38	JPB	TAL TAL
Total/NA	Prep	1631E			160031	07/31/12 15:00	VLC	TAL PEN
Total/NA	Analysis	1631E		1	160087	08/07/12 15:40	VLC	TAL PEN
Total Recoverable	Prep	3005A			245014	07/30/12 16:27	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 06:42	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	246091	08/03/12 06:42	CE	TAL SAV
Total/NA	Analysis	SM 5310C		1	94572	07/29/12 04:14	MF	TAL TAL
Total/NA	Analysis	SM 4500 P E		1	94624	07/27/12 18:13	AJN	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	UnionizedNH3		1	94909	08/09/12 14:46	TBW	TAL TAL
Total/NA	Analysis	SM 2540D		1	127321	08/02/12 08:59	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	127340	08/02/12 13:33	TO	TAL TAM
Total/NA	Prep	SM 5220			127453	08/06/12 13:00	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	127460		RWF	TAL TAM
						(Start) 08/06/12 16:10		
						(End) 08/06/12 16:30		
Total/NA	Analysis	353.2		1	245914	08/07/12 14:04	JR	TAL SAV
Total/NA	Prep	365.2/365.3/365			246227	08/09/12 08:43	MAP	TAL SAV
Total/NA	Analysis	365.4		1	246338	08/10/12 14:32	JR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	246342	08/10/12 16:06	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796	07/26/12 07:00	SF	TAL TAL

Client Sample ID: SW-3

Lab Sample ID: 640-39703-3

Date Collected: 07/26/12 07:25

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 17:47	LS	TAL TAL
Total/NA	Prep	8011			94826	08/06/12 12:28	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/08/12 07:06	JPB	TAL TAL
Total/NA	Prep	1631E			160031	07/31/12 15:00	VLC	TAL PEN
Total/NA	Analysis	1631E		1	160087	08/07/12 15:48	VLC	TAL PEN
Total Recoverable	Prep	3005A			245014	07/30/12 16:27	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 06:48	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	246091	08/03/12 06:48	CE	TAL SAV
Total/NA	Analysis	SM 5310C		4	94609	07/30/12 18:03	MF	TAL TAL
Total/NA	Analysis	SM 4500 P E		1	94624	07/27/12 18:26	AJN	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	UnionizedNH3		1	94909	08/09/12 14:46	TBW	TAL TAL
Total/NA	Analysis	SM 2540D		1	127321	08/02/12 08:59	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	127340	08/02/12 13:33	TO	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 640-39625-1

Client Sample ID: SW-3

Lab Sample ID: 640-39703-3

Date Collected: 07/26/12 07:25

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number		Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 5220			127453		08/06/12 13:00	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	127460			RWF	TAL TAM
						(Start)	08/06/12 16:10		
						(End)	08/06/12 16:30		
Total/NA	Analysis	353.2		1	245914		08/07/12 14:05	JR	TAL SAV
Total/NA	Prep	365.2/365.3/365			246227		08/09/12 08:43	MAP	TAL SAV
Total/NA	Analysis	365.4		1	246338		08/10/12 14:32	JR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	246342		08/10/12 16:06	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	94796		07/26/12 07:25	SF	TAL TAL

Client Sample ID: Trip Blank 39703

Lab Sample ID: 640-39703-4

Date Collected: 07/26/12 00:00

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 12:43	LS	TAL TAL

Laboratory References:

= Diversified Environmental Laboratories, 3653 Regent Blvd. Suite 509, Jacksonville, FL 32224

SC0114 = Ackuritlabs, Inc., 3345 N. Monroe Street, Tallahassee, FL 32303

SC0120 = Harbor Branch Environmental Lab, 2340 SW Poma Drive, Palm City, FL 34990, TEL (772)320-0091

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

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

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

TestAmerica Job ID: 640-39625-1

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	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Oklahoma	State Program	6	9986	08-31-12
Texas	NELAC	6	T104704459-11-2	03-31-13
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	06-30-13
Arizona	State Program	9	AZ0710	01-11-13
Arkansas DEQ	State Program	6	88-0689	09-01-13
Florida	NELAC	4	E81010	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200041	10-09-12
Iowa	State Program	7	367	08-01-12
Kansas	NELAC	7	E-10253	10-31-12
Kentucky (UST)	State Program	4	53	07-05-13
Louisiana	NELAC	6	30976	06-30-13
Maryland	State Program	3	233	12-30-12
Massachusetts	State Program	1	M-FL094	06-30-13
Michigan	State Program	5	9912	06-30-13
New Hampshire	NELAC	1	2505	08-16-12
New Jersey	NELAC	2	FL006	06-30-13
North Carolina DENR	State Program	4	314	12-31-12
Oklahoma	State Program	6	9810	08-31-12
Pennsylvania	NELAC	3	68-00467	12-31-12
Rhode Island	State Program	1	LAO00307	12-30-12
South Carolina	State Program	4	96026	06-30-12
Tennessee	State Program	4	TN02907	06-30-13
Texas	NELAC	6	T104704286-12-4	09-30-12
USDA	Federal		P330-10-00407	12-10-13
Virginia	NELAC	3	460166	06-14-13
Washington	State Program	10	C915	08-08-12
West Virginia DEP	State Program	3	136	06-30-13

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
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	08-15-12
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13

Certification Summary

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

TestAmerica Job ID: 640-39625-1

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	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-12
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

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	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14

Method Summary

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

TestAmerica Job ID: 640-39625-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL TAL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL TAL
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
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL TAL
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 4500 P E	Orthophosphate	SM	TAL TAL
SM 5220D	COD	SM	TAL TAM
SM 5310C	TOC	SM	TAL TAL
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
UnionizedNH3	Ammonia, Unionized	FL-DEP	TAL TAL
Field Sampling	Field Sampling	EPA	TAL TAL
Chlorophyll a (ORL)	SM 10200H Chlorophyll-A	NONE	SC0120
Fecal Coliform	SM 9222D Fecal Coliform by MF	NONE	
Local Method	General Sub Contract Method	NONE	SC0114

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

SC0114 = Ackuritlabs, Inc., 3345 N. Monroe Street, Tallahassee, FL 32303

SC0120 = Harbor Branch Environmental Lab, 2340 SW Poma Drive, Palm City, FL 34990, TEL (772)320-0091

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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

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

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

TestAmerica Job ID: 640-39625-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-39625-1	MWB-29(S)c	Water	07/23/12 17:12	07/25/12 07:30
640-39625-2	MWB-29(I)c	Water	07/23/12 16:38	07/25/12 07:30
640-39625-3	MWB-29(D)c	Water	07/23/12 15:59	07/25/12 07:30
640-39625-4	MWB-31(D)b	Water	07/23/12 15:17	07/25/12 07:30
640-39625-5	MWB-2(S)b	Water	07/23/12 14:26	07/25/12 07:30
640-39625-6	MWB-2(I)b	Water	07/23/12 13:53	07/25/12 07:30
640-39625-7	MWB-13(S)c	Water	07/23/12 13:16	07/25/12 07:30
640-39625-8	MWB-13(I)c	Water	07/23/12 12:44	07/25/12 07:30
640-39625-9	MWB-22(S)c	Water	07/23/12 12:09	07/25/12 07:30
640-39625-10	MWB-12(S)c	Water	07/23/12 11:37	07/25/12 07:30
640-39625-11	MWB-12(1)c	Water	07/23/12 11:06	07/25/12 07:30
640-39625-12	MWB-12(D)c	Water	07/23/12 10:34	07/25/12 07:30
640-39625-13	Trip Blank 01 39625	Water	07/23/12 00:00	07/25/12 07:30
640-39647-1	Field Blank 01 39647	Water	07/24/12 18:00	07/25/12 13:55
640-39647-2	MWB-11(1)(R)c	Water	07/24/12 17:41	07/25/12 13:55
640-39647-3	MWB-11(S)c	Water	07/24/12 17:08	07/25/12 13:55
640-39647-4	MWB-20(S)c	Water	07/24/12 16:34	07/25/12 13:55
640-39647-5	MWB-7(S)c	Water	07/24/12 16:00	07/25/12 13:55
640-39647-6	MWB-7(1)c	Water	07/24/12 15:29	07/25/12 13:55
640-39647-7	MWB-7(D)c	Water	07/24/12 14:57	07/25/12 13:55
640-39647-8	MWB-19(S)c	Water	07/24/12 14:20	07/25/12 13:55
640-39647-9	MWB-19(I)c	Water	07/24/12 13:49	07/25/12 13:55
640-39647-10	MWB-17(S)c	Water	07/24/12 12:28	07/25/12 13:55
640-39647-11	MWB-17(I)c	Water	07/24/12 11:54	07/25/12 13:55
640-39647-12	MWB-17(D)c	Water	07/24/12 11:20	07/25/12 13:55
640-39647-13	MWB-3(S)b	Water	07/24/12 10:46	07/25/12 13:55
640-39647-14	MWB-3(I)b	Water	07/24/12 10:14	07/25/12 13:55
640-39647-15	MWB-27(I)c	Water	07/24/12 08:38	07/25/12 13:55
640-39647-16	MWB-27(D)c	Water	07/24/12 08:09	07/25/12 13:55
640-39647-17	MWB-19(D)c	Water	07/24/12 13:11	07/25/12 13:55
640-39647-18	MWB-27(S)c	Water	07/24/12 09:09	07/25/12 13:55
640-39647-19	Trip Blank 02 39647	Water	07/24/12 00:00	07/25/12 13:55
640-39701-1	Field Blank 02 39701	Water	07/25/12 15:11	07/27/12 08:00
640-39701-2	MWB-32(I)d	Water	07/25/12 10:10	07/27/12 08:00
640-39701-3	MWB-32(S)d	Water	07/25/12 10:43	07/27/12 08:00
640-39701-4	MWB-34(S)d	Water	07/25/12 12:36	07/27/12 08:00
640-39701-5	MWB-34(I)d	Water	07/25/12 12:02	07/27/12 08:00
640-39701-6	MWB-34(D)d	Water	07/25/12 11:27	07/27/12 08:00
640-39701-7	MWB-33(S)d	Water	07/25/12 08:57	07/27/12 08:00
640-39701-8	MWB-21(S)c	Water	07/25/12 08:25	07/27/12 08:00
640-39701-9	MWB-32(D)d	Water	07/25/12 09:32	07/27/12 08:00
640-39701-10	Trip Blank 03 39701	Water	07/25/12 00:00	07/27/12 08:00
640-39703-1	SW-1	Water	07/26/12 08:00	07/27/12 08:00
640-39703-2	SW-2	Water	07/26/12 07:00	07/27/12 08:00
640-39703-3	SW-3	Water	07/26/12 07:25	07/27/12 08:00
640-39703-4	Trip Blank 39703	Water	07/26/12 00:00	07/27/12 08:00

6933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

DELI Project # 120726.01

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/27/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33748-7749.2
Client Contact: Ms. Chris Paul	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 2 of 2
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:4			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - SM9222D-Fecal Coliform (Diversified Env'	8260C - Appendix I VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
SW-1	7.26	0800	G	W	N		1	3		22152
SW-2	7.26	0700	G	W	N		1	3		22153
SW-3	7.26	0725	G	W	N		1	3		22154
TRIP	7.26	—	G	W	N		1	✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7.26.12 0820	PRO-TECH		7/25/12 0820	TA
2		7-26-12 1008			7-26-12 1008	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8 °C, sample temp 3.8°C

Project Login Form

DELI Project Number: 120726.01 Client Name: Test America

Date Received: 07/26/12 Received by: ADC PLF Completed by: JMD

Courier/Shipper Information:

☑ Client ☐ DEL, Inc. ☐ Other (describe) _____

Type & Number of Shipping Containers:

#	Shipping Container Description	Crushed Ice	Cooler/Ice Temp. C	Sample Cont. Temp. C
1	(Cooler) Box Other:	(Yes) No	0.8	3.8
2	Cooler Box Other:	Yes No		
3	Cooler Box Other:	Yes No		
4	Cooler Box Other:	Yes No		
5	Cooler Box Other:	Yes No		

Note: If thermal preservation was used / required, pick a sample container from each cooler and use the IR gun to measure the sample temperature.

Therm Inv. #: 0346 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 #: _____	☐	☑	☐
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?*
22152	Fecal Coliform	1	-	Yes / (No)	-	-	-	Plastic Container
-22154				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				

P = Plastic; G = Glass; AG = Amber Glass; TL = Teflon Lid; WM = Wide Mouth

Comments:

Diversified Environmental Laboratories, Inc.

Amy Marks
Test America
2846 Industrial Plaza Dr
Tallahassee, FL 32301

July 27, 2012

Re:
DELI Project Number: **120726.01**
Client Project Description: **Trail Ridge Landfill**
Client PO Number: **PO105298:4**

Dear Ms. Marks:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
22152	SW-1	07/26/12 08:00	07/26/12 10:08
22153	SW-2	07/26/12 07:00	07/26/12 10:08
22154	SW-3	07/26/12 07:25	07/26/12 10:08

If you have any questions or comments concerning this laboratory report, please do not hesitate to contact us.

Sincerely,

Franklin A. Risk, Jr.
Laboratory Director

Enclosures

This laboratory report consists of a cover page, case narrative page and report page. There may be multiple pages of each. The pages are numbered accordingly. The report may also contain chain of custody forms, project log in forms, QA/QC reports and client worksheets if applicable. The results herein relate only to the items tested or to the samples as received by the laboratory. The report shall not be reproduced except in full, without the written approval of the laboratory. All samples will be disposed of within 30 days of receipt, unless a written request to retain the samples longer is received. All samples referenced in this laboratory report are considered to be environmental samples. The case narrative will contain comments and or notes regarding the samples and analyses.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
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

July 27, 2012

Test America
Amy Marks

Re: DELI Project Number: **120726.01**
Client Project Description: **Trail Ridge Landfill**

Enclosed is the case narrative for the above referenced project:

Sample 22152: Based on historical data, no dilution was made and 100 ml of sample were filtered. Fecal colonies were TNTC.

Sample 22153: Two dilutions were set up (1:10 and 1:20) and the results were calculated to obtain the final result as seen in the report.

Sample 22154: Two dilutions were set up (1:10 and 1:20). The 1:10 produced no colonies, and the 1:20 produced 3 colonies. Results were calculated and flagged with a B qualifier code.

Unless otherwise noted and where applicable:
These samples were received at the proper temperature and with the proper preservation. The samples were analyzed as received, unless otherwise noted. All results in the Quality Control section are labeled appropriately. All results meet the requirements of the NELAP standards, unless otherwise noted. Footnotes are given at the end of the report.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224

Phone 904.807.9625
Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
120726.01	Project Description: Trail Ridge Landfill

Report Date: July 27, 2012

DELI Sample Number	22152	Matrix	Non Potable Water
Sample Designation	SW-1	Date/Time Collected	07/26/12 08:00

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	>60		cfu/100mL	1	1	1		ADC	07/26/12 12:20

NELAP #E821059

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Jacksonville, FL 32224

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Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
120726.01	Project Description: Trail Ridge Landfill

Report Date: July 27, 2012

DELI Sample Number	22153	Matrix	Non Potable Water
Sample Designation	SW-2	Date/Time Collected	07/26/12 07:00

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	**330**		cfu/100mL	1	1	1		ADC	07/26/12 12:20

NELAP #E821059

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Suite 509
Jacksonville, FL 32224

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Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
120726.01	Project Description: Trail Ridge Landfill

Report Date: July 27, 2012

DELI Sample Number	22154	Matrix	Non Potable Water
Sample Designation	SW-3	Date/Time Collected	07/26/12 07:25

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	**60**	B	cfu/100mL	20	1	1		ADC	07/26/12 12:20

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224

Phone 904.807.9625
Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
120726.01	Project Description: Trail Ridge Landfill

Report Date: July 27, 2012

Footnotes

B	Results based upon colony counts outside the acceptable range.
NA	Not Applicable
ND	Not Detected/None Detected
pH	The QC values are not the %RSD or %Recovery, but are the differences in pH units between a sample duplicate or from a standard. The acceptance criteria is +/- 0.20 pH units.
TNTC	Too Numerous To Count

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 Laboritories Inc.

Quality Control Data

Date Printed: July 27, 2012
QCData for Project Number 120726.01

Batch No: **B3063**
TestCode: **Coli Fec (MF) 9222D**

Associated Samples: 22152, 22153, 22154

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- MS	Dup RPD	Qualifiers
Parent Sample Number														*22153*	
Coliform, Fecal	<1 U													33.0	
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.

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224

Phone 904.807.9625
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Email info@delilab.com
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Ackuritlabs, Inc.

3345 North Monroe Street, Tallahassee, FL 32303 • Telephone (850) 562-7751
Environmental Services Section

REVISED REPORT OF ANALYSIS

THIS REPORT MEETS NELAC STANDARDS

Test America
2846 Industrial Plaza Drive
Tallahassee, FL 32301

Report #: 640-39703
Report Date: August 6, 2012
NELAC#: E81350
FDEPQA#: 920087G
Project#: 26287
Sampled By: Dan Armour
Sample Site: Trail Ridge Landfill

Table 1. Samples received 07/27/12.

Analysis	BOD
Units	mg/L
Method	SM 5210B
MDL	2.0
Analysis Date	07/27/12
Analysis Time	17:30
Analyst	TA

Sample Location	Sample Date / Time	Lab ID #	
SW-1	07/26/12 08:00	110876	15.1
SW-2	07/26/12 07:00	110877	2.02
SW-3	07/26/12 07:25	110878	43.9

Duplicate ID:	110876
Original Result:	15.1
Duplicate Result:	13.9
Relative Percent Difference:	8.3
Method Blank Result:	2.0 U
Spike ID:	110877
Unspiked Result:	2.14
Spike Amount:	2.12
Spike Result:	4.37
Percent Recovery:	105

Data Qualifiers that may apply:
U = The analyte was not detected and the indicated value is the detection limit.
All times are in Eastern Standard Time.

Data Release Authorization:
Sample integrity and reliability certified by lab personnel prior to analysis. All quality assurance samples met quality control limits unless otherwise specified. The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval of Ackuritlabs. Please contact the undersigned at the above phone number with any questions regarding this report. *This report has been revised to include the QC data.*

8-6-12

Todd J. Acker, Laboratory Director

Chain of Custody Record

8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Client Information

Client Contact: Ms. Chris Paul
Company: Golder Associates Inc.
Address: 3730 Chamblee Tucker Road
City: Atlanta
State, Zip: GA, 30341
Phone: 770-492-8105(Tel)
Email: cpaul@golder.com
Project Name: Trail Ridge Landfill
Site: Florida

Sampler: DAN ARMOUR
Phone: 225.907.4060

Lab PM: Marks, Amy
E-Mail: amy.marks@testamericainc.com

Carrier Tracking No(s):

COC No: 640-33748-7749.1
Page: Page 1 of 2
Job #: 640-39703

Due Date Requested:
TAT Requested (days):
PO #: PO105298:4
WO #:
Project #: 64005280
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2; 366.1, Nitrogen,Total	SM4500_NO2_B - Nitrite as N	SUBCONTRACT - SM 10200H-Chlorophyll a	5210B - Biochemical Oxygen Demand	2540C, 2540D	8011 - EDB, DBCP	8260C - Appendix I VOCs	353.2 - NOx / 350.1 - NH3 / UnionizedNH3	5310C - Total Organic Carbon	4500_P_E_Ortho - ortho-Phosphate	5220D - Chemical Oxygen Demand	6020 - App I Metals / 6010C - Iron / 2340B - Ha	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	N	R	N	S	S	N	S	D	
SW-1	7-26	0800	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1	110876
SW-2	7-26	0700	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1	110877
SW-3	7-26	0725	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1	110878
TRIP	7-26	—	G	W	N									✓						

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - Di Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	7.26.12 0820	PRO-TECH	Received by:	7/26/12	
Relinquished by:	7/26/12 1134	TA	Received by:	7/27/12	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.5°, 1.0°

8/27/2012

HBEL, Inc.
2340 SW Poma Drive, Palm City FL 34990
Phone: (772) 465-8584 Fax: (772) 467-1584

Revised 08-03-12

Date issued: August 3, 2012

To: Jacksonville Office
TestAmerica Inc.
8933 Western Way, Suite 1
Jacksonville, FL 32256

Client: TestAmerica Inc.
Workorder ID: Trail Ridge Landfill 64005280 **[2047266]**
Received: 7/27/12 8:30

Dear Jacksonville Office;

Analytical results presented in this report have been reviewed for compliance with the HBEL, Inc. Quality Systems Manual and have been determined to meet applicable Method guidelines and Standards referenced in the July 2003 National Environmental Laboratory Accreditation Program (NELAP) Quality Manual unless otherwise noted. The Analytical Results within these report pages reflect the values obtained from tests performed on Samples As Received by the laboratory unless indicated differently.

FDOH Safe Drinking Water Act, Clean Water Act and RCRA Certification #'s:
E96080, E83509

Questions regarding this report should be directed to the Report Signatory at (772) 465-8584 referencing the HBEL Workorder ID [Number].

Respectfully submitted,

Eric Charest
HBEL, Inc. Laboratory Manager

Note: This report is not to be copied, except in full, without the expressed written consent of HBEL, Inc.

HBEL, Inc.
2340 SW Poma Drive, Palm City, FL 34990
Phone: (772) 465-8584 Fax: (772) 467-1584

Revised 08-03-12

Quality Control Summary

Client: TestAmerica Inc.
Workorder ID: Trail Ridge Landfill 64005280
Received: 7/27/12 8:30

[2047266]

MB=Method Blank LCS=Laboratory Control Sample LCSD=Laboratory Control Sample Duplicate MS=Matrix Spike MSD=Matrix Spike Duplicate DUP=Sample Duplicate

Method Narratives (If Applicable)

HBEL Sample Number	Sample ID	Analytical Method	Description

Quality Control Summary

Method	HBEL Batch	Analyte	Analytical Issue

Method Required Supporting Parameters

Revised 08-03-12 to reflect requested reporting units.

HBEL, Inc.
2340 SW Poma Drive, Palm City FL 34990
Phone: (772) 465-8584 Fax: (772) 467-1584

Revised 08-03-12

CERTIFICATE OF ANALYSIS

[2047266]

Client: TestAmerica Inc. *Workorder ID:* Trail Ridge Landfill 64005280

Parameter	Qualifier	Result[1]	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Laboratory ID: ***2047266001*** *Sample ID:* ***SW-1***					*Sampled: 07/26/12 8:00* *Matrix: Water*	*Received: 07/27/12 8:30* Results reported on Wet Weight Basis				
Chlorophyll a		**46**	ug/L	2.0	SM10200H	WCGE36021	07/27/12 10:00	08/2/12 16:55	GG	E96080
Laboratory ID: ***2047266002*** *Sample ID:* ***SW-2***					*Sampled: 07/26/12 7:00* *Matrix: Water*	*Received: 07/27/12 8:30* Results reported on Wet Weight Basis				
Chlorophyll a		**0.24U**	ug/L	0.24	SM10200H	WCGE36021	07/27/12 10:00	08/2/12 16:55	GG	E96080
Laboratory ID: ***2047266003*** *Sample ID:* ***SW-3***					*Sampled: 07/26/12 7:25* *Matrix: Water*	*Received: 07/27/12 8:30* Results reported on Wet Weight Basis				
Chlorophyll a		**32**	ug/L	0.48	SM10200H	WCGE36021	07/27/12 10:00	08/2/12 16:55	GG	E96080

[1]Result Qualifiers: U = Not Detected I = Analyte detected between the Laboratory Method Detection Limit and Laboratory Reporting Limit
Applicable Florida Department of Environmental Protection Qualifiers defined below. Statement of Estimated Uncertainty available upon request.

8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

16659

Chain of Custody Record

#20472266

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33748-7749.1
Client Contact: Ms. Chris Paul	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 2
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:4			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 365.1, Nitrogen,Total	SM4500_NO2_B - Nitrite as N	SUBCONTRACT - SM 10200H-Chlorophyll a	5210B - Biochemical Oxygen Demand	2540C, 2540D	8011 - EDB, DBCP	8260C - Appendix I VOCs	353.2 - NOx / 350.1 - NH3 / UnionizedNH3	5310C - Total Organic Carbon	4500_P_E_Ortho - ortho-Phosphate	5220D - Chemical Oxygen Demand	6020 - App I Metals / 6010C - Iron / 2340B - Ha	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	N	R	N	S	S	N	S	D		
SW-1	7-26	0800	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
SW-2	7-26	0700	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
SW-3	7-26	0725	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
TRIP	7-26	—	G	W	N									✓							

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		7.26.12 / 0820	PRO-TECH		7/26/12 0820	TA
	Relinquished by:	7/26/12 1450	TA	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	7/27/12 0830	TABL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2

Page 240 of 288

Page 4 of 4 8/27/2012

Revised 08-03-12

Revised 08-03-12

HBEL, Inc.

2340 SW Poma Drive, Palm City, FL 34990
Phone: (772) 465-8584 Fax: (772) 467-1584

Quality Control Report

Client: TestAmerica Inc.
Workorder ID: Trail Ridge Landfill 64005280
Received: 7/27/12 8:30

[2047266]

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower - Upper	*Detection Limit*	Original Sample
MB=Method Blank LCS=Laboratory Control Sample LCSD=Laboratory Control Sample Duplicate MS=Matrix Spike MSD=Matrix Spike Duplicate DUP=Sample Duplicate XMS=Sludge Matrix Spike XMSD=Sludge Matrix Spike Duplicate MMS=Marine Matrix Spike MMSD=Marine Matrix Spike Duplicate								
SM10200H								
LCS	Chlorophyll a	446762	WCGE36021	Accuracy	**97**	80 120		
MB	Chlorophyll a	446763	WCGE36021	Result ***ND***			*0.12 ug/L*	
MS	Chlorophyll a	446764	WCGE36021	Accuracy	**108**	80 120		2047250003
MSD	Chlorophyll a	446765	WCGE36021	Accuracy	**100**	80 120		2047250003
MSD	Chlorophyll a	446765	WCGE36021	Precision	**7.7**	0 20		2047250003

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
"THE LEADER IN ENVIRONMENTAL TESTING"

8/27/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33754-8202.1
Client Contact: Ms. Chris Paul	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 4
Company: Golder Associates Inc.				Job #: 640 - 39625
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:7			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1; 353.2	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011; EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020; 7470A	6010C - Iron and Sodium	8260C - Appendix I VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	D	N		
MWB29S	7-23	1712	G	W	N		1	1	1	3		✓	1	1	3		
MWB29I	7-23	1638	G	W	N		1	1	1	3		✓	1	1	3		
MWB29D	7-23	1559	G	W	N		1	1	1	3		✓	1	1	3		
MWB31D	7-23	1517	G	W	N		1	1	1	3		✓	1	1	3		
MWB2S	7-23	1426	G	W	N		1	1	1	3		✓	1	1	3		
MWB2I	7-23	1353	G	W	N		1	1	1	3		✓	1	1	3		
MWB13S	7-23	1316	G	W	N		1	1	1	3		✓	1	1	3		
MWB13I	7-23	1244	G	W	N		1	1	1	3		✓	1	1	3		
MWB22S	7-23	1209	G	W	N		1	1	1	3		✓	1	1	3		
MWB12S	7-23	1137	G	W	N		1	1	1	3		✓	1	1	3		
MWB12I	7-23	1106	G	W	N		1	1	1	3		✓	1	1	3		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 7-24-12 0745	Company: PRO-TECH	Received by: Date/Time: 7/24/12 0745 Company: TA
Relinquished by:	Date/Time: 7/24/12 1000	Company: TA	Received by: TM Date/Time: 7/25/12 Company: 730
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8, 1.3 0.9

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33754-8202.2
Client Contact: Ms. Chris Paul	Phone: 235,907,4960	E-Mail: amy.marks@testamericainc.com		Page: Page 2 of 4
Company: Golder Associates Inc.				Job #: 640-39625
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:7			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1; 353.2	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	6010C - Iron and Sodium	8260C - Appendix 1 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	D	N		
MW81RD	7-23	1034	G	W	N		1	1	1	3		✓	1	1	3		
TRIP	7-23	—	G	W	N										✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 7-24-12 0745	Company: PRO-TECH	Received by:	Date/Time: 7/24/12 0745	Company: TA
Relinquished by:	Date/Time: 7/24/12 1600	Company: TA	Received by:	Date/Time: 7/25/12 730	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.5 1.5 0.9

8/27/2012

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Ms. Chris Paul	Sampler: DAN ARMOUR
Company: Golder Associates Inc.	Phone: 225.907.4060
Address: 3730 Chamblee Tucker Road	Due Date Requested:
City: Atlanta	TAT Requested (days):
State, Zip: GA, 30341	PO #: PO105298.7
Phone: 770-492-8105(Tel)	WO #:
Email: cpaul@golder.com	Project #: 64005280
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	SSOW#:
Site: Florida	

Lab PM: Marks, Amy	Carrier Tracking No(s):
E-Mail: amy.marks@testamericainc.com	COC No: 640-33754-8202.1
	Page: Page 1 of 4
	Job #: 640-30647

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 353.2	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	6010C - Iron and Sodium	8260C - Appendix 1 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	D	N		
FIELD BLANK 1	7-24	1800	G	W	N		1	1	1			1	1				
MWB11I(B)	7-24	1741	G	W	N		1	1	1	3	3	1	1	1			
MWB11S	7-24	1708	G	W	N		1	1	1	3	3	1	1	1			
MWB20S	7-24	1634	G	W	N		1	1	1	3	3	1	1	1			
MWB7S	7-24	1600	G	W	N		1	1	1	3	3	1	1	1			
MWB7I	7-24	1529	G	W	N		1	1	1	3	3	1	1	1			
MWB7D	7-24	1457	G	W	N		1	1	1	3	3	1	1	1			
MWB19S	7-24	1420	G	W	N		1	1	1	3	3	1	1	1			
MWB19I	7-24	1349	G	W	N		1	1	1	3	3	1	1	1			
MWB17S	7-24	1228	G	W	N		1	1	1	3	3	1	1	1			
MWB17I	7-24	1154	G	W	N		1	1	1	3	3	1	1	1			

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:
Relinquished by:	Date/Time: 7-25-12 / 0800	Company: PRO-TECH	Received by:	Date/Time: 7/25/12 0800	Company: TA
Relinquished by:	Date/Time: 7/25/12 0914	Company: TA	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.3, 0.8, 1.1

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica

8/27/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33754-8202.1
Client Contact: Ms. Chris Paul	Phone: 325.907.4960	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 4
Company: Golder Associates Inc.				Job #: 640-39647
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:7			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.1, 353.2	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix 1 VOCs	300.0_28D - Chloride	6020, 7470A	6010C - Iron and Sodium	8260C - Appendix 1 VOCs	DISSOLVED METALS (*)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	D	N			
MWB17D	7-24	1120	G	W	N		1	1	1	3	3	1	1	1				(*) ANALYZE DISS. METALS FOR DETECTED TOTAL METALS ONLY.
MWB3S	7-24	1046	G	W	N		1	1	1	3	3	1	1	1				
MWB3I	7-24	1014	G	W	N		1	1	1	3	3	1	1	1				
MWB27I	7-24	0838	G	W	N		1	1	1	3	3	1	1	(				
MWB27D	7-24	0809	G	W	N		1	1	1	3	3	1	1	1				
MWB19D	7-24	1311	G	W	Y		1	1	1	3	3	1	1	1		1		
MWB27S	7-24	0909	G	W	Y		1	1	1	3	3	1	1	1		1		
TRIP	7-24	—	G	W	N						✓							

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 7-25-12/0800	Company: PRO-TECH	Received by:
Relinquished by:	Date/Time: 7/25/12 0914	Company: TA	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Received by:	Date/Time: 7/25/12 0800	Company: TA	
Received by:	Date/Time:	Company:	
Received by:	Date/Time:	Company:	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.3, 0.4, 1.1

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

640-39701

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33754-8202.3
Client Contact: Ms. Chris Paul	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 3 of 4
Company: Golder Associates Inc.		Analysis Requested		Job #: 640-39701
Address: 3730 Chamblee Tucker Road	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:7			Other:
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill/Trail Ridge SA Event Desc: Semi-Annual Gro	Project #: 64005280			
Site: Florida	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 353.2	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	6010C - Iron and Sodium	8260C - Appendix 1 VOCs	DISSOLVED METALS (*)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	D	N			
FIELD BLANK 2	7-25	1511	G	W	N		1	1	1			1	1					(*) ANALYZE DISSOLVED
MWB32I	7-25	1010	G	W	Y		1	1	1	3	3	1	1			1		METALS FOR
MWB32S	7-25	1043	G	W	Y		1	1	1	3	3	1	1			1		DETECTED TOTAL
MWB34S	7-25	1236	G	W	N		1	1	1	3	3	1	1					METALS ONLY
MWB34I	7-25	1202	G	W	N		1	1	1	3	3	1	1					
MWB34D	7-25	1129	G	W	N		1	1	1	3	3	1	1					
MWB33S	7-25	0857	G	W	N		1	1	1	3	3	1	1					
MWB21S	7-25	0825	G	W	N		1	1	1	3	3	1	1					
MWB32D	7-25	0932	G	W	N		1	1	1	9	9	1	1					ADDITIONAL VOLUME
TRIP	7-25	—	G	W	N						✓							@MWB32D FOR
																		QA/QC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7-26-12 0820	PRO-TECH		7/26/12 1682	TA
2		7/26/12 1138	TA		7/27/12 800	TA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.0, 0.9

8/27/2012

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/27/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33748-7749.2
Client Contact: Ms. Chris Paul	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 2 of 2
Company: Golder Associates Inc.				Job #: 640-39701
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:4			
Email: cpaul@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - SM9222D-Fecal Coliform (Diversified Env'	8260C - Appendix I VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
SW-1	7-26	0800	G	W	N		1	3		
SW-2	7-26	0700	G	W	N		1	3		
SW-3	7-26	0725	G	W	N		1	3		
TRIP	7-26	—	G	W	N		✱	✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 7-26-12 0820	Company PRO-TECH	Received by:	Date/Time: 7/26/12 0828	Company TA		
Relinquished by:	Date/Time: 7/26/12 1134	Company TA	Received by:	Date/Time: 7/27/12 800	Company TAL		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/27/2012

Client Information

Client Contact: Ms. Chris Paul
Company: Golder Associates Inc.
Address: 3730 Chamblee Tucker Road
City: Atlanta
State, Zip: GA, 30341
Phone: 770-492-8105(Tel)
Email: cpaul@golder.com
Project Name: Trail Ridge Landfill
Site: Florida

Sampler: DAN ARMOUR
Phone: 225.907.4060
Lab PM: Marks, Amy
E-Mail: amy.marks@testamericainc.com
Carrier Tracking No(s):

COC No: 640-33748-7749.1
Page: Page 1 of 2
Job #: 640-39703

Due Date Requested:
TAT Requested (days):
PO #: PO105298:4
WO #:
Project #: 64005280
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 365.1, Nitrogen,Total	SM4500_NO2_B - Nitrite as N	SUBCONTRACT - SM 10200H-Chlorophyll a	5210B - Biochemical Oxygen Demand	2540C, 2540D	8011 - EDB, DBCP	8260C - Appendix I VOCs	353.2 - NOx / 350.1 - NH3 / UnionizedNH3	5310C - Total Organic Carbon	4500_P_E_Ortho - ortho-Phosphate	5220D - Chemical Oxygen Demand	6020 - App I Metals / 6010C - Iron / 2340B - Ha	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	N	R	N	S	S	N	S	D		
SW-1	7-26	0800	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
SW-2	7-26	0700	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
SW-3	7-26	0725	G	W	N		3	1	1	1	1	1	3	3	1	3	1	1	1		
TRIP	7-26	—	G	W	N									4							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	7.26.12 / 0820	PRO-TECH	Received by:	7/26/12 0820	PT
Relinquished by:	7/26/12 1134	TA	Received by:	7/27/12 850	TAJV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8°, 1.0°

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB29S	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/8	10 feet to 20 feet	7.50	BP

WELL ELEVATION TOC (ft NGVD): 138.02 GROUNDWATER ELEVATION (ft NGVD): 130.52

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
15.00	15.00	1652	1712	3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1702	1.80	1.80	0.18	7.57	4.29	24.2	40	0.2	4.01	122		
1705	0.54	2.34	0.18	7.58	4.33	24.2	40	0.3	3.57	120		
1708	0.54	2.88	0.18	7.58	4.32	24.2	41	0.2	3.14	119		
1711	0.54	3.42	0.18	7.59	4.30	24.2	41	0.3	3.67	119	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1712	NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
15.00	T		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29I	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 53.5 feet to 63.5 feet	STATIC DEPTH TO WATER (feet): 3.66		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.08			GROUNDWATER ELEVATION (ft NGVD): 134.42		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 63.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	PURGING INITIATED AT: 1617	PURGING ENDED AT: 1638		TOTAL VOLUME PURGED (gallons): 5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1628	2.86	2.86	0.26	3.71	5.02	22.0	35	0.5	15.27	128		
1631	0.78	3.64	0.26	3.74	5.08	22.0	35	0.5	15.12	130		
1634	0.78	4.42	0.26	3.73	5.04	21.8	35	0.5	16.36	133		
1637	0.78	5.20	0.26	3.73	5.02	21.8	35	0.5	14.66	135	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1638		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 58.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29D	SAMPLE ID:		DATE: 7.23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100.5 feet to 110.5 feet	STATIC DEPTH TO WATER (feet): 3.81		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.18			GROUNDWATER ELEVATION (ft NGVD): 134.37		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 110.50 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	PURGING INITIATED AT: 1534	PURGING ENDED AT: 1559		TOTAL VOLUME PURGED (gallons): 7.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1546	3.36	3.36	0.28	4.72	5.54	22.0	67	0.1	2.80	86		
1550	1.12	4.48	0.28	4.70	5.54	22.0	68	0.2	2.68	85		
1554	1.12	5.60	0.28	4.72	5.56	22.0	69	0.1	2.44	87		
1558	1.12	6.72	0.28	4.73	5.53	22.0	69	0.1	2.24	86	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1559	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW831D	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 119 feet to 129 feet	STATIC DEPTH TO WATER (feet): 16.67		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 156.15			GROUNDWATER ELEVATION (ft NGVD): 139.48		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 129.00 feet) + 0.05 gallons = 1.12 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	PURGING INITIATED AT: 1452	PURGING ENDED AT: 1517		TOTAL VOLUME PURGED (gallons): 7.50

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
1504	3.60	3.60	0.30	19.88	7.28	21.1	364	0.0	3.91	-8		
1508	1.20	4.80	0.30	19.90	7.26	21.1	368	0.0	3.25	-6		
1512	1.20	6.00	0.30	19.88	7.31	21.0	368	0.0	1.37	-5		
1516	1.20	7.20	0.30	19.92	7.32	21.0	368	0.0	1.87	-4	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1517	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): 124.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB2S	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	10 feet to 20 feet	6.43		BP

WELL ELEVATION TOC (ft NGVD): 146.64 GROUNDWATER ELEVATION (ft NGVD): 140.21

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
15.00	15.00	1406	1426		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
1416	1.70	1.70	0.17	6.77	4.65	25.3	22	1.1	17.88	130		
1419	0.51	2.21	0.17	6.77	4.68	25.3	22	1.0	19.03	126		
1422	0.51	2.72	0.17	6.79	4.63	25.4	24	1.0	19.29	123		
1425	0.51	3.23	0.17	6.79	4.66	25.4	25	1.0	18.67	121		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016;

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1426		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
15.00	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW32I	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 51.5 feet to 61.5 feet	STATIC DEPTH TO WATER (feet): 7.78		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 145.73			GROUNDWATER ELEVATION (ft NGVD): 137.95		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 61.50 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	PURGING INITIATED AT: 1332	PURGING ENDED AT: 1353		TOTAL VOLUME PURGED (gallons): 5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1343	2.97	2.97	0.27	7.90	4.74	21.1	39	0.4	2.14	128		
1346	0.81	3.78	0.27	7.92	4.74	21.0	38	0.4	1.51	133		
1349	0.81	4.59	0.27	7.92	4.73	21.0	39	0.4	2.69	137		
1352	0.81	5.40	0.27	7.92	4.71	21.0	39	0.4	2.03	131	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 56.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13S	SAMPLE ID:		DATE: 7.23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16.56 feet to 26.56 feet	STATIC DEPTH TO WATER (feet): 12.36		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.06			GROUNDWATER ELEVATION (ft NGVD): 113.70		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.56 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	PURGING INITIATED AT: 1257	PURGING ENDED AT: 1316		TOTAL VOLUME PURGED (gallons): 3.26

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
1306	1.53	1.53	0.17	12.88	5.76	25.9	418	0.8	54.40	53		
1309	0.51	2.04	0.17	12.90	5.79	25.9	418	0.8	55.11	50		
1312	0.51	2.55	0.17	12.91	5.78	25.8	420	0.8	50.13	50		
1315	0.51	3.06	0.17	12.93	5.81	25.8	422	0.7	48.45	49	BROWN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1316		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 21.56	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13I	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 50.4 feet to 60.4 feet	STATIC DEPTH TO WATER (feet): 16.87		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.98			GROUNDWATER ELEVATION (ft NGVD): 109.11		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 60.40 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40	PURGING INITIATED AT: 1223	PURGING ENDED AT: 1244		TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1234	2.75	2.75	0.25	17.03	5.18	24.3	34	0.4	5.47	125		
1237	0.75	3.50	0.25	17.04	5.15	24.2	34	0.3	5.07	121		
1240	0.75	4.25	0.25	17.03	5.17	24.2	33	0.3	4.93	118		
1243	0.75	5.00	0.25	17.03	5.14	24.2	34	0.3	4.23	116	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1244	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.40	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB22S	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 11.36		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.97			GROUNDWATER ELEVATION (ft NGVD): 115.67		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.00 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	PURGING INITIATED AT: 1149	PURGING ENDED AT: 1209		TOTAL VOLUME PURGED (gallons): 3.86

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
1154	1.90	1.90	0.19	11.75	6.00	24.2	277	0.3	6.52	-2		
1202	0.57	2.47	0.19	11.72	6.01	24.2	278	0.4	4.35	-4		
1205	0.57	3.04	0.19	11.75	5.94	24.3	271	0.3	7.05	-5		
1208	0.57	3.61	0.19	11.76	5.98	24.2	274	0.3	5.18	-8	YELLOW TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1209		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 21.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:	
TRAIL RIDGE		JACKSONVILLE, FL	
WELL NO: MWB12S	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	14.5 feet to 24.5 feet	9.73		BP

WELL ELEVATION TOC (ft NGVD): 124.63 GROUNDWATER ELEVATION (ft NGVD): 114.90

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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
19.50	19.50	1118	1137		3.42

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1127	1.62	1.62	0.18	9.93	5.50	24.8	168	0.7	23.30	25		
1130	0.54	2.16	0.18	9.92	5.48	24.8	165	0.8	26.13	27		
1133	0.54	2.70	0.18	9.92	5.51	24.8	165	0.7	25.88	28		
1136	0.54	3.24	0.18	9.91	5.54	24.8	164	0.7	23.24	28	SLT.	
											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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1137		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
19.50	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12I	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 61.5 feet to 71.5 feet	STATIC DEPTH TO WATER (feet): 6.86		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.62			GROUNDWATER ELEVATION (ft NGVD): 117.76		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 71.50 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	PURGING INITIATED AT: 1046	PURGING ENDED AT: 1106		TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1056	2.80	2.80	0.28	6.94	5.16	24.8	40	0.3	6.46	-92		
1059	0.84	3.64	0.28	6.97	5.12	24.8	39	0.3	2.24	-96		
1102	0.84	4.48	0.28	6.95	5.17	24.7	39	0.3	2.66	-97		
1105	0.84	5.32	0.28	6.95	5.15	24.7	39	0.3	3.16	-91	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1106	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 66.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12D	SAMPLE ID:		DATE: 7-23-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 102 feet to 112 feet	STATIC DEPTH TO WATER (feet): 4.58	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.56 GROUNDWATER ELEVATION (ft NGVD): 119.98

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 112.00 feet) + 0.05 gallons = 1.02 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 107.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 107.00	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1034		TOTAL VOLUME PURGED (gallons): 6.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1021	3.08	3.08	0.28	4.69	7.01	23.7	388	0.1	4.44	-74		
1025	1.12	4.20	0.28	4.69	7.03	23.7	389	0.1	3.86	-70		
1029	1.12	5.32	0.28	4.70	7.02	23.6	388	0.1	4.48	-68		
1033	1.12	6.44	0.28	4.70	7.04	23.6	388	0.1	3.53	-71	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1034	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 107.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB11I(R)	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	45 feet to 55 feet	STATIC DEPTH TO WATER (feet):	10.78	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	120.43			GROUNDWATER ELEVATION (ft NGVD):	109.65				

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 55.00 feet) + 0.05 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	50.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	50.00	PURGING INITIATED AT:	1720	PURGING ENDED AT:	1741		TOTAL VOLUME PURGED (gallons):	4.83

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1731	2.53	2.53	0.23	12.08	4.67	23.7	35	0.0	8.47	36		
1734	0.69	3.22	0.23	12.08	4.70	23.7	35	0.0	9.28	33		
1737	0.69	3.91	0.23	12.08	4.71	23.7	34	0.0	7.44	32		
1740	0.69	4.60	0.23	12.08	4.74	23.7	34	0.0	9.81	33	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1741		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	50.00	TUBING MATERIAL CODE:	T			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
*	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present: YES (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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet	STATIC DEPTH TO WATER (feet): 10.87		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 120.81			GROUNDWATER ELEVATION (ft NGVD): 109.94		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.50 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50	PURGING INITIATED AT: 1648	PURGING ENDED AT: 1708		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
1658	1.70	1.70	0.17	10.94	3.85	22.9	245	0.1	4.05	145		
1701	0.51	2.21	0.17	10.95	3.88	22.8	244	0.2	4.61	148		
1704	0.51	2.72	0.17	10.95	3.89	22.8	246	0.2	2.13	149		
1707	0.51	3.23	0.17	10.95	3.90	22.8	247	0.1	2.77	150	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1708		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 14.50	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW820S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.20		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.01			GROUNDWATER ELEVATION (ft NGVD): 113.81		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1614	PURGING ENDED AT: 1634		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1624	1.80	1.80	0.18	7.37	4.16	24.8	76	0.0	18.68	42		
1627	0.54	2.34	0.18	7.38	4.21	24.8	73	0.0	18.43	47		
1630	0.54	2.88	0.18	7.38	4.24	24.8	74	0.0	19.06	44		
1633	0.54	3.42	0.18	7.38	4.23	24.8	76	0.0	19.13	42	SLT. BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1634		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.41		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 123.29			GROUNDWATER ELEVATION (ft NGVD): 115.88		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1540	PURGING ENDED AT: 1600		TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1550	1.70	1.70	0.17	7.80	5.13	26.3	177	0.0	16.97	9		
1553	0.51	2.21	0.17	7.80	5.15	26.3	177	0.0	15.44	6		
1556	0.51	2.72	0.17	7.80	5.18	26.2	178	0.0	15.83	7		
1559	0.51	3.23	0.17	7.82	5.16	26.2	177	0.0	15.59	9	SLT. YL/BRN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7I	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 55 feet to 65 feet	STATIC DEPTH TO WATER (feet): 3.22		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.53			GROUNDWATER ELEVATION (ft NGVD): 118.31		

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 65.00 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	PURGING INITIATED AT: 1508	PURGING ENDED AT: 1529		TOTAL VOLUME PURGED (gallons): 5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1519	2.86	2.86	0.26	3.25	5.04	22.5	41	0.0	4.43	-36		
1522	0.78	3.64	0.26	3.27	5.08	22.5	40	0.0	4.00	-35		
1525	0.78	4.42	0.26	3.28	5.07	22.4	40	0.0	4.56	-36		
1528	0.78	5.20	0.26	3.28	5.07	22.4	40	0.0	3.29	-35	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1529		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 60.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7D	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 107 feet to 117 feet	STATIC DEPTH TO WATER (feet): 0.97		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.65			GROUNDWATER ELEVATION (ft NGVD): 120.68		

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 117.00 feet) + 0.05 gallons = 1.05 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	PURGING INITIATED AT: 1433	PURGING ENDED AT: 1457		TOTAL VOLUME PURGED (gallons): 6.96

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
1444	3.19	3.19	0.29	1.15	7.43	22.2	350	0.0	3.90	-84		
1448	1.16	4.35	0.29	1.11	7.40	22.2	351	0.0	2.80	-88		
1452	1.16	5.51	0.29	1.14	7.41	22.2	351	0.0	2.31	-90		
1456	1.16	6.67	0.29	1.15	7.41	22.2	352	0.0	2.05	-87	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1457		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 112.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB19S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	6.47	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	127.38			GROUNDWATER ELEVATION (ft NGVD):		120.91			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	PURGING INITIATED AT:	1400	PURGING ENDED AT:	1420		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
1410	1.60	1.60	0.16	6.50	5.48	24.4	153	0.1	16.42	22		
1413	0.48	2.08	0.16	6.50	5.44	24.3	150	0.0	14.39	21		
1416	0.48	2.56	0.16	6.50	5.43	24.3	148	0.1	14.46	19		
1419	0.48	3.04	0.16	6.50	5.43	24.3	146	0.0	13.85	18	SLT. BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1420		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	15.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB19I	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	49 feet to 59 feet	STATIC DEPTH TO WATER (feet):	6.89	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	127.94			GROUNDWATER ELEVATION (ft NGVD):		121.05			

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 59.00 feet) + 0.05 gallons = 0.70 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	54.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	54.00	PURGING INITIATED AT:	1328	PURGING ENDED AT:	1349	TOTAL VOLUME PURGED (gallons):	5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1339	2.86	2.86	0.26	6.96	5.06	22.3	35	0.2	15.72	0		
1342	0.78	3.64	0.26	6.96	5.07	22.3	34	0.2	15.89	-4		
1345	0.78	4.42	0.26	6.98	5.07	22.3	34	0.2	15.07	-7		
1348	0.78	5.20	0.26	6.98	5.06	22.3	34	0.2	15.84	-8	SLT. WHITISH TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1349	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	54.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW817S	SAMPLE ID:		DATE: 7-24-12

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): 6.11		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.31			GROUNDWATER ELEVATION (ft NGVD): 132.20		

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: 1208	PURGING ENDED AT: 1228		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1218	1.80	1.80	0.18	6.38	5.48	25.4	85	0.6	19.36	14		
1221	0.54	2.34	0.18	6.35	5.42	25.4	82	0.6	20.16	11		
1224	0.54	2.88	0.18	6.36	5.40	25.4	80	0.6	19.85	10		
1227	0.54	3.42	0.18	6.39	5.39	25.4	78	0.6	19.82	9	LT. BROWN	
											T,NT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1228		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.80	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB17I	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 50.13 feet to 60.13 feet	STATIC DEPTH TO WATER (feet): 2.56		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.43			GROUNDWATER ELEVATION (ft NGVD): 135.87		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.13 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	PURGING INITIATED AT: 1133	PURGING ENDED AT: 1154	TOTAL VOLUME PURGED (gallons): 5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1144	2.86	2.86	0.26	2.64	5.04	22.5	30	0.0	2.60	17		
1147	0.78	3.64	0.26	2.65	5.03	22.4	29	0.0	2.98	19		
1150	0.78	4.42	0.26	2.67	5.02	22.4	29	0.0	2.52	19		
1153	0.78	5.20	0.26	2.65	5.02	22.3	29	0.0	1.47	20	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1154	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.13	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW817D	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 117.32 feet to 127.32 feet	STATIC DEPTH TO WATER (feet): 6.58		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.52			GROUNDWATER ELEVATION (ft NGVD): 131.94		

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 127.32 feet) + 0.05 gallons = 1.11 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	PURGING INITIATED AT: 1058	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 8.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1110	4.56	4.56	0.38	8.17	5.42	21.6	55	0.0	1.75	37		
1113	1.14	5.70	0.38	8.15	5.45	21.6	56	0.0	2.09	39		
1116	1.14	6.84	0.38	8.15	5.42	21.6	56	0.0	1.48	37		
1119	1.14	7.98	0.38	8.16	5.45	21.6	56	0.0	1.14	38	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 122.35	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW83S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.06		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 154.38			GROUNDWATER ELEVATION (ft NGVD): 147.32		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1026	PURGING ENDED AT: 1046	TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1036	1.80	1.80	0.18	9.27	4.35	22.4	35	0.8	6.39	226		
1039	0.54	2.34	0.18	9.31	4.33	22.4	35	0.8	4.35	228		
1042	0.54	2.88	0.18	9.29	4.33	22.4	35	0.9	3.67	230		
1045	0.54	3.42	0.18	9.29	4.36	22.4	35	0.9	3.03	229	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1046	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB3I	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 52 feet to 62 feet	STATIC DEPTH TO WATER (feet): 12.33		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 151.86			GROUNDWATER ELEVATION (ft NGVD): 139.53		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.00 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00	PURGING INITIATED AT: 0953	PURGING ENDED AT: 1014		TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1004	2.75	2.75	0.25	13.13	4.42	20.2	42	0.1	2.82	181		
1007	0.75	3.50	0.25	13.15	4.46	20.2	42	0.1	1.97	185		
1010	0.75	4.25	0.25	13.15	4.45	20.2	42	0.1	1.69	185		
1013	0.75	5.00	0.25	13.15	4.45	20.2	42	0.1	1.47	184	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1014		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 57.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB27I	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: 52.5 feet to 62.5 feet	STATIC DEPTH TO WATER (feet):	4.59		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	128.63				GROUNDWATER ELEVATION (ft NGVD):	124.04			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	57.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	57.50	PURGING INITIATED AT:	0818	PURGING ENDED AT:	0838		TOTAL VOLUME PURGED (gallons):	5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0828	2.50	2.50	0.25	4.70	5.49	21.6	50	0.2	6.79	101		
0831	0.75	3.25	0.25	4.72	5.51	21.6	51	0.3	6.40	104		
0834	0.75	4.00	0.25	4.70	5.51	21.6	51	0.3	6.22	104		
0837	0.75	4.75	0.25	4.70	5.53	21.6	51	0.3	5.55	105	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0838		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	57.50	TUBING MATERIAL CODE:	T			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27D	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 4.96		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.88			GROUNDWATER ELEVATION (ft NGVD): 123.92		

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 110.00 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	PURGING INITIATED AT: 0747	PURGING ENDED AT: 0809		TOTAL VOLUME PURGED (gallons): 7.48

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
0759	4.08	4.08	0.34	5.44	5.81	21.0	97	0.2	0.48	67		
0802	1.02	5.10	0.34	5.44	5.81	21.1	96	0.2	0.33	69		
0805	1.02	6.12	0.34	5.44	5.83	21.1	93	0.2	0.29	70		
0808	1.02	7.14	0.34	5.45	5.84	21.2	94	0.2	0.46	71	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0809	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19D	SAMPLE ID:		DATE: 7-24-12

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): 6.70		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.23			GROUNDWATER ELEVATION (ft NGVD): 121.53		

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: 1249	PURGING ENDED AT: 1311		TOTAL VOLUME PURGED (gallons): 7.70

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
1301	4.20	4.20	0.35	9.56	7.33	21.9	363	0.0	80.41	-89		
1304	1.05	5.25	0.35	9.58	7.38	21.7	362	0.0	82.19	-92		
1307	1.05	6.30	0.35	9.59	7.35	21.7	362	0.0	79.33	-94		
1310	1.05	7.35	0.35	9.59	7.36	21.7	364	0.0	80.70	-95	SLT.	
											WHITISH/GRAY	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1311		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 110.50	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type: IN LINE	FILTER SIZE: 1.00 Micron
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEENING

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27S	SAMPLE ID:		DATE: 7-24-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 5.5 feet to 15.5 feet	STATIC DEPTH TO WATER (feet): 6.43		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.42			GROUNDWATER ELEVATION (ft NGVD): 121.99		

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 15.50 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	PURGING INITIATED AT: 0849	PURGING ENDED AT: 0909		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
0859	1.60	1.60	0.16	6.55	5.38	23.4	95	0.0	54.43	132		
0902	0.48	2.08	0.16	6.55	5.36	23.4	95	0.0	57.09	133		
0905	0.48	2.56	0.16	6.55	5.39	23.4	95	0.0	55.64	132		
0908	0.48	3.04	0.16	6.55	5.39	23.4	95	0.0	55.91	135	BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0909		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type: 1.00 µm		FILTER SIZE: IN-LINE
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	X SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32I	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 54.56 feet to 64.56 feet	STATIC DEPTH TO WATER (feet): 6.37	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.79		GROUNDWATER ELEVATION (ft NGVD):		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 64.56 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	PURGING INITIATED AT: 0944	PURGING ENDED AT: 1010 ~~1000~~		TOTAL VOLUME PURGED (gallons): 6.76

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
1000	4.16	4.16	0.26	6.50	5.34	21.1	41	0.2	52.60	116		
1003	0.78	4.94	0.26	6.50	5.33	21.0	40	0.3	55.17	119		
1006	0.78	5.72	0.26	6.50	5.37	21.0	41	0.2	52.27	120		
1009	0.78	6.50	0.26	6.50	5.34	21.0	40	0.2	54.31	120	SLT. WHITISH TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1010	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 59.56	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N µm Filtration Equipment Type: IN-LINE	FILTER SIZE: 1.00 micron
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW832S	SAMPLE ID:		DATE: 7.25.12

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	9.9 feet to 19.9 feet	7.95		BP

WELL ELEVATION TOC (ft NGVD): 124.64 GROUNDWATER ELEVATION (ft NGVD): 116.69

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.90 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
14.90	14.90	1022	1043		3.9

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
1033	1.98	1.98	0.18	9.46	5.82	23.3	369	0.2	484.1	109		
1036	0.54	2.52	0.18	9.43	5.84	23.3	373	0.2	481.3	112		
1039	0.54	3.06	0.18	9.43	5.84	23.3	371	0.2	488.3	110		
1042	0.54	3.60	0.18	9.42	5.83	23.3	370	0.2	489.4	110	BROWN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1043		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: (Y) N µm	FILTER SIZE: 1.00
14.90	T		Filtration Equipment Type: IN-LINE	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE SAMPLE	C-D-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:
Sheen Present: YES (NO) EARTH WORK / FINAL COVER WORK ON GOING AROUND THIS WELL

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB34S	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 8.36 feet to 18.36 feet	STATIC DEPTH TO WATER (feet): 9.33		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.78			GROUNDWATER ELEVATION (ft NGVD): 116.45		

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 18.36 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: 1216	PURGING ENDED AT: 1236		TOTAL VOLUME PURGED (gallons): 7.40

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
1226	1.70	1.70	0.17	10.38	6.19	24.4	885	0.3	4.45	87		
1229	0.51	2.21	0.17	10.40	6.21	24.4	887	0.2	3.76	85		
1232	0.51	2.72	0.17	10.41	6.23	24.3	887	0.2	3.43	84		
1235	0.51	3.23	0.17	10.42	6.23	24.3	888	0.2	3.81	84	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1236		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.36	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW834I	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 43.95 feet to 53.95 feet	STATIC DEPTH TO WATER (feet): 7.97		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.80			GROUNDWATER ELEVATION (ft NGVD): 117.83		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 53.95 feet) + 0.05 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95	PURGING INITIATED AT: 1141	PURGING ENDED AT: 1202	TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1152	2.75	2.75	0.25	8.14	5.27	24.5	44	0.3	7.44	116		
1155	0.75	3.50	0.25	8.11	5.24	24.4	43	0.2	7.90	115		
1158	0.75	4.25	0.25	8.11	5.23	24.4	43	0.2	7.29	114		
1201	0.75	5.00	0.25	8.12	5.23	24.4	43	0.2	7.17	114	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1202	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 48.95	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW834D	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 90.78 feet to 100.78 feet	STATIC DEPTH TO WATER (feet): 8.14	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.92			GROUNDWATER ELEVATION (ft NGVD): 117.78	

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 100.78 feet) + 0.05 gallons = 0.95 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	PURGING INITIATED AT: 1105	PURGING ENDED AT: 1127	TOTAL VOLUME PURGED (gallons): 7.26

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
1117	3.96	3.96	0.33	8.57	7.02	22.7	421	0.2	2.02	-17		
1120	0.99	4.95	0.33	8.57	7.03	22.7	426	0.2	1.65	-18		
1123	0.99	5.94	0.33	8.58	7.04	22.6	428	0.2	1.99	-18		
1126	0.99	6.93	0.33	8.58	7.04	22.6	429	0.2	1.12	-19	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 95.78	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB33S	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.3 feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 10.24	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.90		GROUNDWATER ELEVATION (ft NGVD): 115.66		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.30 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	PURGING INITIATED AT: 0837	PURGING ENDED AT: 0857	TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0847	1.80	1.80	0.18	10.31	5.23	24.4	256	0.3	5.39	74		
0850	0.54	2.34	0.18	10.30	5.25	24.4	258	0.3	4.76	74		
0853	0.54	2.88	0.18	10.32	5.24	24.4	256	0.3	3.41	72		
0856	0.54	3.42	0.18	10.30	5.23	24.4	255	0.3	3.87	71	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0857	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB21S	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 10.70		PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 122.84 GROUNDWATER ELEVATION (ft NGVD): 112.14

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 18.00 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	PURGING INITIATED AT: 0805	PURGING ENDED AT: 0825		TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0815	1.70	1.76	0.17	11.06	5.14	24.2	158	0.1	3.97	153		
0818	0.51	2.21	0.17	11.05	5.17	24.2	160	0.1	4.33	156		
0821	0.51	2.72	0.17	11.05	5.19	24.2	163	0.1	2.87	158		
0824	0.51	3.23	0.17	11.05	5.20	24.2	165	0.1	3.14	159	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0825		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32D	SAMPLE ID:		DATE: 7.25.12

PURGING DATA

WELL DIAMETER (Inches): 2	TUBING DIAMETER (Inches): 3/8	WELL SCREEN INTERVAL DEPTH: 98.8 feet to 108.8 feet	STATIC DEPTH TO WATER (feet): 6.66		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.93			GROUNDWATER ELEVATION (ft NGVD): 118.27		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 108.81 feet) + 0.05 gallons = 1.00 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0932		TOTAL VOLUME PURGED (gallons): 8.50

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
0922	4.08	5.10	0.34	7.08	5.94	21.1	135	0.5	3.32	67		
0925	1.02	6.12	0.34	7.05	5.95	21.0	138	0.4	3.85	66		
0928	1.02	7.14	0.34	7.04	5.98	21.0	138	0.4	4.56	65		
0931	1.02	8.16	0.34	7.05	5.98	21.0	139	0.4	4.80	64	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0932	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 103.81	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO EXTRA VOLUME COLLECTED FOR QA/QC

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-1	SAMPLE ID:		DATE: 7-26-12

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
NA	NA		NA		NA

WELL ELEVATION TOC (ft NGVD): NA — GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA		NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0800	NA	NA	NA	NA	6.13	25.1	105	5.1 *	31.86	82	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		0800		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA			

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-1 = SURFACE WATER POINT NO SHEEN

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-2	SAMPLE ID:		DATE: 7-26-12

PURGING DATA

WELL DIAMETER (Inches):	NA	TUBING DIAMETER (inches):	NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):	NA		PURGE PUMP TYPE OR BAILER:	NA
WELL ELEVATION TOC (ft NGVD):	NA				GROUNDWATER ELEVATION (ft NGVD):	NA			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	NA	PURGING INITIATED AT:	NA	PURGING ENDED AT:	NA		TOTAL VOLUME PURGED (gallons):	NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0700	NA	NA	NA	NA	4.62	21.7	64	5.8	2.52	77	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0700		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	NA	TUBING MATERIAL CODE:	NA			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION:	PUMP Y N NA	TUBING Y N (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE			C-O-C AND BOTTLE			ORDER WORKSHEET		

REMARKS:
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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-3	SAMPLE ID:		DATE: 7-26-12

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0725	NA	NA	NA	NA	7.16	28.3	457	4.6	26.99	77	BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0725	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	~~X~~ SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SW-3 = SURFACE WATER POINT NO SHEEN

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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: 640-39704-1
Client Project/Site: Trail Ridge Landfill

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

Attn: Mr. Mike Smilley

Authorized for release by:
8/30/2012 9:49:27 AM

Amy Marks
Project Manager II
amy.marks@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.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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.
L	Off-scale high. Actual value is known to be greater than the value given.

GC/MS Semi VOA

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

GC Semi VOA

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.

DIOXIN

Qualifier	Qualifier Description
U	Indicates the analyte 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.

General Chemistry

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 640-39704-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-39704-1

Comments
No additional comments.

Receipt
The samples were received on 7/27/2012 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9º C and 1.0º C.

GC/MS VOA
Method 8260C: Sample COMP-1 (640-39704-1) was diluted 1:100 due to the abundance of target analytes. Elevated reporting limits are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270D: One surrogate recovered above the upper control limit in the following quality control samples: LCS 640-94588/2-A, LCSD 640-94588/3-A. The affected surrogate is flagged "J". All surrogate recoveries for associated samples were within control limits.

Method 8270D: The method blank for batch 94588 contained bis(2-ethylhexyl)phthalate above the method detection limit. This target analyte concentration was less than the practical quantitation limit (PQL); therefore, re-extraction and re-analysis of samples was not performed. Associated sample detections are qualified "V".

Method 8270D: The method blank for batch 94621 contained bis(2-ethylhexyl)phthalate above the method detection limit. This target analyte concentration was less than the practical quantitation limit (PQL); therefore, re-extraction and re-analysis of samples was not performed. Associated sample detections are qualified "V".

Method 8270D: The following analyte recovered outside control limits for the LCS/LCSD associated with batch 94588: Hexachlorocyclopentadiene. This analyte is not indicative of a systematic problem and was within the Marginal Exceedance Limits; therefore, the results have been reported and qualified "J".

Method 8270D: Due to the high concentration of phenol and 3&4-methylphenol in the parent sample (COMP-1), the matrix spike / matrix spike duplicate (MS/MSD) for batch 94588 could not be evaluated for accuracy and precision. The associated LCS/LCSD met acceptance criteria.

Method 8270D: The following analytes recovered outside control limits for the LCS/LCSD associated with batch 94621: 4-Bromophenyl phenyl ether, Di-n-butylphthalate, Hexachlorocyclopentadiene. These analytes are not indicative of a systematic problem and were within the Marginal Exceedance Limits; therefore, the results have been reported and qualified "J".

Method 8270D: The MS/MSD for batch 94621 was outside control limits for one or more analytes. The affected analytes are flagged "J". The associated LCS/LCSD met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8081B/8082A: Three surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: (640-39704-2 MS), (640-39704-2 MSD), COMP-1 (640-39704-1). The affected recoveries are flagged "J".

Method 8141B: Surrogate recoveries for the MS/MSD in batch 94585 were outside control limits. The affected surrogates are flagged "J". The parent sample (TANK-6) and batch LCS/LCSD were within control limits.

Method 8151A: The following samples were diluted due to sample matrix: COMP-1 (640-39704-1), (640-39704-1 MS), (640-39704-1 MSD). Due to the level of dilution required, surrogates could not be recovered.

Job ID: 640-39704-1 (Continued)

Laboratory: TestAmerica Tallahassee (Continued)

Methods 8081B/8082A, 8141B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 94585 were outside control limits. Sample (TANK-6) 640-39704-2 was used for the MS/MSD. The associated LCS/LCSD met acceptance criteria.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Field Service / Mobile Lab

Field data was collected and provided by Professional Technical Services.

General Chemistry

Method 353.2: The following samples were diluted due to the nature of the sample matrix: COMP-1 (640-39704-1), TANK-6 (640-39704-2). Elevated reporting limits (RL) are provided.

Method SM 4500 NO2 B: The following sample was diluted due to the nature of the sample matrix: COMP-1 (640-39704-1). Elevated reporting limits (RLs) are provided.

Method SM 4500 S2 F: The following sample was diluted due to the nature of the sample matrix: TANK-6 (640-39704-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: COMP-1 — Lab Sample ID: 640-39704-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5500		2500	280	ug/L	100		8260C	Total/NA
2-Butanone (MEK)	5200		1000	260	ug/L	100		8260C	Total/NA
1,4-Dichlorobenzene	5.1	I	10	0.39	ug/L	1		8270D	Total/NA
Naphthalene	74		10	0.57	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol - DL	2300		200	15	ug/L	20		8270D	Total/NA
Phenol - DL	2400		200	14	ug/L	20		8270D	Total/NA
1,2-Dibromo-3-Chloropropane	0.066		0.018	0.0056	ug/L	1		8011	Total/NA
beta-BHC	0.072		0.050	0.0040	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.0091	I	0.050	0.0029	ug/L	1		8081B/8082A	Total/NA
Methoxychlor	0.066	I	0.50	0.0021	ug/L	1		8081B/8082A	Total/NA
Ethyl Parathion	0.17	I	1.0	0.080	ug/L	1		8141B	Total/NA
Iron	77000		2500	1200	ug/L	1		6010B	Total Recoverable
Sodium	2900		50	14	mg/L	1		6010B	Total Recoverable
Arsenic	270		130	65	ug/L	1		6020	Total Recoverable
Barium	160	I	250	65	ug/L	1		6020	Total Recoverable
Chromium	270		250	130	ug/L	1		6020	Total Recoverable
Cobalt	65		25	7.5	ug/L	1		6020	Total Recoverable
Nickel	260		250	100	ug/L	1		6020	Total Recoverable
Tin	150	I	250	65	ug/L	1		6020	Total Recoverable
Zinc	1100		1000	420	ug/L	1		6020	Total Recoverable
Mercury	0.14	I	0.20	0.091	ug/L	1		7470A	Total/NA
Chloride	3100		100	20	mg/L	100		300.0	Total/NA
Ammonia	1700		50	26	mg/L	1000		350.1	Total/NA
Total Dissolved Solids	12000		250	250	mg/L	1		SM 2540C	Total/NA
Cyanide, Total	0.028		0.010	0.0025	mg/L	1		SM 4500 CN E	Total/NA
Sulfide	17		10	10	mg/L	1		SM 4500 S2 F	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	38.2				Degrees C	1		Field Sampling	Total/NA
Specific Conductance	22810				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Color	Black				PCU	1		Field Sampling	Total/NA
Sheen	Yes				NONE	1		Field Sampling	Total/NA

Client Sample ID: TANK-6 — Lab Sample ID: 640-39704-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	31		25	2.8	ug/L	1		8260C	Total/NA
Benzene	1.3		1.0	0.13	ug/L	1		8260C	Total/NA
Chlorobenzene	0.80	I	1.0	0.13	ug/L	1		8260C	Total/NA
Ethylbenzene	3.2		1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	12		2.0	0.30	ug/L	1		8260C	Total/NA
o-Xylene	4.1		1.0	0.15	ug/L	1		8260C	Total/NA
Toluene	3.4		1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	16		2.0	0.44	ug/L	1		8260C	Total/NA
Bis(2-ethylhexyl) phthalate	1.6	I V	10	0.65	ug/L	1		8270D	Total/NA
1,4-Dichlorobenzene	5.4	I	10	0.39	ug/L	1		8270D	Total/NA
2-Methylphenol	3.6	I	10	0.78	ug/L	1		8270D	Total/NA

Client Sample ID: TANK-6 (Continued)

Lab Sample ID: 640-39704-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.5	I	10	0.57	ug/L	1		8270D	Total/NA
o-Toluidine	10		10	0.64	ug/L	1		8270D	Total/NA
1,2-Dibromo-3-Chloropropane	0.011	I	0.019	0.0057	ug/L	1		8011	Total/NA
Endrin aldehyde	0.0038	I	0.10	0.00079	ug/L	1		8081B/8082A	Total/NA
Heptachlor epoxide	0.0023	I	0.050	0.0013	ug/L	1		8081B/8082A	Total/NA
4,4'-DDT	0.0093	I	0.10	0.0035	ug/L	1		8081B/8082A	Total/NA
Iron	27000		50	24	ug/L	1		6010B	Total Recoverable
Sodium	880		100	28	mg/L	100		6010B	Total Recoverable
Antimony	15		5.0	2.3	ug/L	1		6020	Total Recoverable
Arsenic	58		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	410		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	82		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	20		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	180		5.0	1.1	ug/L	1		6020	Total Recoverable
Lead	17		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	87		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	2.9		2.5	1.0	ug/L	1		6020	Total Recoverable
Tin	28		5.0	1.3	ug/L	1		6020	Total Recoverable
Vanadium	37		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	190		20	8.3	ug/L	1		6020	Total Recoverable
Chloride	1000		100	20	mg/L	100		300.0	Total/NA
Ammonia	570		50	26	mg/L	1000		350.1	Total/NA
Total Dissolved Solids	3100		250	250	mg/L	1		SM 2540C	Total/NA
Cyanide, Total	0.011		0.010	0.0025	mg/L	1		SM 4500 CN E	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	33.8				Degrees C	1		Field Sampling	Total/NA
Specific Conductance	9123				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Color	Amber				PCU	1		Field Sampling	Total/NA
Sheen	Yes				NONE	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 39704

Lab Sample ID: 640-39704-3

No Detections

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5500**		2500	280	ug/L			07/31/12 19:57	100
Acetonitrile	3500	U	20000	3500	ug/L			07/31/12 19:57	100
Acrolein	750	U	2000	750	ug/L			07/31/12 19:57	100
Acrylonitrile	300	U	2000	300	ug/L			07/31/12 19:57	100
Benzene	13	U	100	13	ug/L			07/31/12 19:57	100
Bromoform	18	U	100	18	ug/L			07/31/12 19:57	100
Bromomethane	51	U	100	51	ug/L			07/31/12 19:57	100
2-Butanone (MEK)	**5200**		1000	260	ug/L			07/31/12 19:57	100
Carbon disulfide	23	U	100	23	ug/L			07/31/12 19:57	100
Carbon tetrachloride	18	U	100	18	ug/L			07/31/12 19:57	100
Chlorobenzene	13	U	100	13	ug/L			07/31/12 19:57	100
Chlorobromomethane	21	U	100	21	ug/L			07/31/12 19:57	100
2-Chloro-1,3-butadiene	14	U	100	14	ug/L			07/31/12 19:57	100
Chlorodibromomethane	15	U	100	15	ug/L			07/31/12 19:57	100
Chloroethane	33	U	100	33	ug/L			07/31/12 19:57	100
Chloroform	12	U	100	12	ug/L			07/31/12 19:57	100
Chloromethane	18	U	100	18	ug/L			07/31/12 19:57	100
3-Chloro-1-propene	34	U	100	34	ug/L			07/31/12 19:57	100
cis-1,2-Dichloroethene	21	U	100	21	ug/L			07/31/12 19:57	100
cis-1,3-Dichloropropene	14	U	100	14	ug/L			07/31/12 19:57	100
Dibromomethane	20	U	100	20	ug/L			07/31/12 19:57	100
Dichlorobromomethane	17	U	100	17	ug/L			07/31/12 19:57	100
Dichlorodifluoromethane	28	U	100	28	ug/L			07/31/12 19:57	100
1,1-Dichloroethane	20	U	100	20	ug/L			07/31/12 19:57	100
1,2-Dichloroethane	15	U	100	15	ug/L			07/31/12 19:57	100
1,1-Dichloroethene	23	U	100	23	ug/L			07/31/12 19:57	100
1,2-Dichloropropane	17	U	100	17	ug/L			07/31/12 19:57	100
1,3-Dichloropropane	13	U	100	13	ug/L			07/31/12 19:57	100
2,2-Dichloropropane	20	U	100	20	ug/L			07/31/12 19:57	100
1,1-Dichloropropene	13	U	100	13	ug/L			07/31/12 19:57	100
Ethylbenzene	16	U	100	16	ug/L			07/31/12 19:57	100
Ethyl methacrylate	15	U	100	15	ug/L			07/31/12 19:57	100
2-Hexanone	100	U	1000	100	ug/L			07/31/12 19:57	100
Iodomethane	13	U	500	13	ug/L			07/31/12 19:57	100
Isobutyl alcohol	1500	U	20000	1500	ug/L			07/31/12 19:57	100
Methacrylonitrile	120	U	2000	120	ug/L			07/31/12 19:57	100
Methylene Chloride	21	U	500	21	ug/L			07/31/12 19:57	100
Methyl methacrylate	29	U	100	29	ug/L			07/31/12 19:57	100
4-Methyl-2-pentanone (MIBK)	150	U	1000	150	ug/L			07/31/12 19:57	100
m-Xylene & p-Xylene	30	U	200	30	ug/L			07/31/12 19:57	100
o-Xylene	15	U	100	15	ug/L			07/31/12 19:57	100
Propionitrile	380	U	2000	380	ug/L			07/31/12 19:57	100
Styrene	12	U	100	12	ug/L			07/31/12 19:57	100
1,1,1,2-Tetrachloroethane	14	U	100	14	ug/L			07/31/12 19:57	100
1,1,2,2-Tetrachloroethane	11	U	100	11	ug/L			07/31/12 19:57	100
Tetrachloroethene	19	U	100	19	ug/L			07/31/12 19:57	100
Toluene	14	U	100	14	ug/L			07/31/12 19:57	100
trans-1,4-Dichloro-2-butene	43	U	200	43	ug/L			07/31/12 19:57	100
trans-1,2-Dichloroethene	26	U	100	26	ug/L			07/31/12 19:57	100
trans-1,3-Dichloropropene	14	U	100	14	ug/L			07/31/12 19:57	100
1,1,1-Trichloroethane	16	U	100	16	ug/L			07/31/12 19:57	100

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	20	U	100	20	ug/L			07/31/12 19:57	100
Trichloroethene	16	U	100	16	ug/L			07/31/12 19:57	100
Trichlorofluoromethane	21	U	100	21	ug/L			07/31/12 19:57	100
1,2,3-Trichloropropane	23	U	100	23	ug/L			07/31/12 19:57	100
Vinyl acetate	38	U	200	38	ug/L			07/31/12 19:57	100
Vinyl chloride	22	U	100	22	ug/L			07/31/12 19:57	100
Xylenes, Total	44	U	200	44	ug/L			07/31/12 19:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*07/31/12 19:57*	*100*
Dibromofluoromethane	*98*		*81 - 113*		*07/31/12 19:57*	*100*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/31/12 19:57*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.70	U	10	0.70	ug/L		07/30/12 14:14	08/03/12 19:07	1
Acenaphthylene	0.85	U	10	0.85	ug/L		07/30/12 14:14	08/03/12 19:07	1
Acetophenone	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Acetylaminofluorene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Aminobiphenyl	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 19:07	1
Anthracene	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzo[a]anthracene	0.85	U	10	0.85	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzo[b]fluoranthene	0.98	U	10	0.98	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzo[k]fluoranthene	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzo[g,h,i]perylene	1.4	U	10	1.4	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
Benzyl alcohol	0.78	U	10	0.78	ug/L		07/30/12 14:14	08/03/12 19:07	1
Bis(2-chloroethoxy)methane	0.72	U	10	0.72	ug/L		07/30/12 14:14	08/03/12 19:07	1
Bis(2-chloroethyl)ether	0.59	U	10	0.59	ug/L		07/30/12 14:14	08/03/12 19:07	1
Bis(2-ethylhexyl) phthalate	0.65	U	10	0.65	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Bromophenyl phenyl ether	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 19:07	1
Butyl benzyl phthalate	0.89	U	10	0.89	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Chloroaniline	0.68	U	20	0.68	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Chloro-3-methylphenol	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Chloronaphthalene	0.60	U	10	0.60	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Chlorophenol	0.52	U	10	0.52	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Chlorophenyl phenyl ether	0.88	U	10	0.88	ug/L		07/30/12 14:14	08/03/12 19:07	1
Chrysene	0.95	U	10	0.95	ug/L		07/30/12 14:14	08/03/12 19:07	1
Diallate	0.46	U	10	0.46	ug/L		07/30/12 14:14	08/03/12 19:07	1
Dibenz(a,h)anthracene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
Dibenzofuran	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 19:07	1
Di-n-butyl phthalate	1.7	U	10	1.7	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,2-Dichlorobenzene	0.44	U	10	0.44	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,3-Dichlorobenzene	0.42	U	10	0.42	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,4-Dichlorobenzene	**5.1**	**I**	10	0.39	ug/L		07/30/12 14:14	08/03/12 19:07	1
3,3'-Dichlorobenzidine	0.75	U	20	0.75	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4-Dichlorophenol	0.72	U	10	0.72	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,6-Dichlorophenol	0.86	U	10	0.86	ug/L		07/30/12 14:14	08/03/12 19:07	1
Diethyl phthalate	1.4	U	10	1.4	ug/L		07/30/12 14:14	08/03/12 19:07	1
p-Dimethylamino azobenzene	0.39	U	10	0.39	ug/L		07/30/12 14:14	08/03/12 19:07	1
7,12-Dimethylbenz(a)anthracene	0.34	U	10	0.34	ug/L		07/30/12 14:14	08/03/12 19:07	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	3.0	U	20	3.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4-Dimethylphenol	0.75	U	10	0.75	ug/L		07/30/12 14:14	08/03/12 19:07	1
Dimethyl phthalate	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,3-Dinitrobenzene	1.7	U	50	1.7	ug/L		07/30/12 14:14	08/03/12 19:07	1
4,6-Dinitro-2-methylphenol	0.96	U	50	0.96	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4-Dinitrophenol	3.9	U	50	3.9	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,6-Dinitrotoluene	0.88	U	10	0.88	ug/L		07/30/12 14:14	08/03/12 19:07	1
Dinoseb	0.98	U	10	0.98	ug/L		07/30/12 14:14	08/03/12 19:07	1
Di-n-octyl phthalate	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 19:07	1
Ethyl methanesulfonate	0.92	U	10	0.92	ug/L		07/30/12 14:14	08/03/12 19:07	1
Fluoranthene	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 19:07	1
Fluorene	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
Hexachlorobenzene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
Hexachlorobutadiene	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 19:07	1
Hexachlorocyclopentadiene	0.21	U J	10	0.21	ug/L		07/30/12 14:14	08/03/12 19:07	1
Hexachloroethane	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 19:07	1
Hexachloropropene	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 19:07	1
Indeno[1,2,3-cd]pyrene	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 19:07	1
Isophorone	0.81	U	10	0.81	ug/L		07/30/12 14:14	08/03/12 19:07	1
Isosafrole	0.90	U	10	0.90	ug/L		07/30/12 14:14	08/03/12 19:07	1
Kepone	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 19:07	1
Methapyrilene	1.0	U	2000	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
3-Methylcholanthrene	0.61	U	10	0.61	ug/L		07/30/12 14:14	08/03/12 19:07	1
Methyl methanesulfonate	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Methylnaphthalene	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Methylphenol	0.78	U	10	0.78	ug/L		07/30/12 14:14	08/03/12 19:07	1
Naphthalene	**74**		10	0.57	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,4-Naphthoquinone	0.34	U	10	0.34	ug/L		07/30/12 14:14	08/03/12 19:07	1
1-Naphthylamine	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Naphthylamine	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Nitroaniline	0.84	U	50	0.84	ug/L		07/30/12 14:14	08/03/12 19:07	1
3-Nitroaniline	1.4	U	50	1.4	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Nitroaniline	1.2	U	50	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
Nitrobenzene	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 19:07	1
2-Nitrophenol	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 19:07	1
4-Nitrophenol	1.3	U	50	1.3	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitro-o-toluidine	0.74	U	10	0.74	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosodiethylamine	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosodimethylamine	3.1	U	10	3.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosodi-n-butylamine	0.66	U	10	0.66	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosodi-n-propylamine	0.82	U	10	0.82	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosodiphenylamine	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosomethylethylamine	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosopiperidine	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
N-Nitrosopyrrolidine	0.70	U	10	0.70	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,2'-oxybis[1-chloropropane]	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 19:07	1
Pentachlorobenzene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
Pentachloronitrobenzene	0.54	U	10	0.54	ug/L		07/30/12 14:14	08/03/12 19:07	1
Pentachlorophenol	1.1	U	50	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
Phenacetin	0.53	U	10	0.53	ug/L		07/30/12 14:14	08/03/12 19:07	1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 19:07	1
p-Phenylene diamine	500	U	2000	500	ug/L		07/30/12 14:14	08/03/12 19:07	1
Pronamide	0.35	U	10	0.35	ug/L		07/30/12 14:14	08/03/12 19:07	1
Pyrene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 19:07	1
Safrole, Total	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,2,4,5-Tetrachlorobenzene	0.90	U	10	0.90	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,3,4,6-Tetrachlorophenol	3.8	U	10	3.8	ug/L		07/30/12 14:14	08/03/12 19:07	1
o-Toluidine	0.64	U	10	0.64	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,2,4-Trichlorobenzene	0.51	U	10	0.51	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4,5-Trichlorophenol	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 19:07	1
2,4,6-Trichlorophenol	0.93	U	10	0.93	ug/L		07/30/12 14:14	08/03/12 19:07	1
o,o',o''-Triethylphosphorothioate	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 19:07	1
1,3,5-Trinitrobenzene	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*39 - 123*	*07/30/12 14:14*	*08/03/12 19:07*	*1*
2-Fluorobiphenyl	*67*		*31 - 113*	*07/30/12 14:14*	*08/03/12 19:07*	*1*
Terphenyl-d14	*28*		*10 - 138*	*07/30/12 14:14*	*08/03/12 19:07*	*1*
Phenol-d5	*86*		*23 - 123*	*07/30/12 14:14*	*08/03/12 19:07*	*1*
2-Fluorophenol	*63*		*27 - 111*	*07/30/12 14:14*	*08/03/12 19:07*	*1*
2,4,6-Tribromophenol	*61*		*42 - 128*	*07/30/12 14:14*	*08/03/12 19:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**2300**		200	15	ug/L		07/30/12 14:14	08/13/12 23:42	20
Phenol	**2400**		200	14	ug/L		07/30/12 14:14	08/13/12 23:42	20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	**0.066**		0.018	0.0056	ug/L		08/06/12 12:22	08/07/12 17:29	1
Ethylene Dibromide	0.0060	U	0.018	0.0060	ug/L		08/06/12 12:22	08/07/12 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*108*		*56 - 144*	*08/06/12 12:22*	*08/07/12 17:29*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.00088	U	0.10	0.00088	ug/L		07/30/12 14:02	08/02/12 17:43	1
4,4'-DDE	0.0010	U	0.10	0.0010	ug/L		07/30/12 14:02	08/02/12 17:43	1
alpha-BHC	0.0030	U	0.050	0.0030	ug/L		07/30/12 14:02	08/02/12 17:43	1
beta-BHC	**0.072**		0.050	0.0040	ug/L		07/30/12 14:02	08/02/12 17:43	1
Chlordane (technical)	0.096	U	0.50	0.096	ug/L		07/30/12 14:02	08/02/12 17:43	1
delta-BHC	**0.0091**	**I**	0.050	0.0029	ug/L		07/30/12 14:02	08/02/12 17:43	1
Endosulfan I	0.00094	U	0.050	0.00094	ug/L		07/30/12 14:02	08/02/12 17:43	1
Endosulfan II	0.0018	U	0.10	0.0018	ug/L		07/30/12 14:02	08/02/12 17:43	1
Endosulfan sulfate	0.0028	U	0.10	0.0028	ug/L		07/30/12 14:02	08/02/12 17:43	1
Endrin aldehyde	0.00079	U	0.10	0.00079	ug/L		07/30/12 14:02	08/02/12 17:43	1
Chlorobenzilate	0.055	U	0.50	0.055	ug/L		07/30/12 14:02	08/08/12 13:42	1
Heptachlor epoxide	0.0013	U	0.050	0.0013	ug/L		07/30/12 14:02	08/02/12 17:43	1
Isodrin	0.0079	U	0.050	0.0079	ug/L		07/30/12 14:02	08/08/12 13:42	1
Methoxychlor	**0.066**	**I**	0.50	0.0021	ug/L		07/30/12 14:02	08/02/12 17:43	1
PCB-1016	0.17	U	1.0	0.17	ug/L		07/30/12 14:02	08/06/12 17:57	1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.18	U	2.0	0.18	ug/L		07/30/12 14:02	08/06/12 17:57	1
PCB-1232	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 17:57	1
PCB-1242	0.094	U	1.0	0.094	ug/L		07/30/12 14:02	08/06/12 17:57	1
PCB-1248	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 17:57	1
PCB-1254	0.10	U	1.0	0.10	ug/L		07/30/12 14:02	08/06/12 17:57	1
PCB-1260	0.087	U	1.0	0.087	ug/L		07/30/12 14:02	08/06/12 17:57	1
Toxaphene	0.24	U	5.0	0.24	ug/L		07/30/12 14:02	08/02/12 17:43	1
4,4'-DDT	0.0035	U	0.10	0.0035	ug/L		07/30/12 14:02	08/02/12 17:43	1
Aldrin	0.0013	U	0.050	0.0013	ug/L		07/30/12 14:02	08/02/12 17:43	1
Dieldrin	0.00078	U	0.10	0.00078	ug/L		07/30/12 14:02	08/02/12 17:43	1
Endrin	0.00064	U	0.10	0.00064	ug/L		07/30/12 14:02	08/02/12 17:43	1
gamma-BHC (Lindane)	0.0011	U	0.050	0.0011	ug/L		07/30/12 14:02	08/02/12 17:43	1
Heptachlor	0.0015	U	0.050	0.0015	ug/L		07/30/12 14:02	08/02/12 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*12*		*10 - 120*	*07/30/12 14:02*	*08/06/12 17:57*	*1*
Dibutylchlorendate	*8*	*J*	*10 - 130*	*07/30/12 14:02*	*08/06/12 17:57*	*1*
Tetrachloro-m-xylene	*23*		*10 - 110*	*07/30/12 14:02*	*08/06/12 17:57*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	0.32	U	2.0	0.32	ug/L		07/30/12 14:02	08/01/12 14:28	1
Disulfoton	0.12	U	2.0	0.12	ug/L		07/30/12 14:02	08/01/12 14:28	1
Famphur	0.11	U	2.0	0.11	ug/L		07/30/12 14:02	08/01/12 14:28	1
Methyl parathion	0.12	U	0.50	0.12	ug/L		07/30/12 14:02	08/01/12 14:28	1
Ethyl Parathion	**0.17**	**I**	1.0	0.080	ug/L		07/30/12 14:02	08/01/12 14:28	1
Phorate	0.16	U	1.0	0.16	ug/L		07/30/12 14:02	08/01/12 14:28	1
Thionazin	0.061	U	1.0	0.061	ug/L		07/30/12 14:02	08/01/12 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*38*		*37 - 139*	*07/30/12 14:02*	*08/01/12 14:28*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	3.7	U	50	3.7	ug/L		07/30/12 08:03	08/03/12 17:51	10
2,4,5-T	6.2	U	50	6.2	ug/L		07/30/12 08:03	08/03/12 17:51	10
Silvex (2,4,5-TP)	6.2	U	50	6.2	ug/L		07/30/12 08:03	08/03/12 17:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*0*		*52 - 151*	*07/30/12 08:03*	*08/03/12 17:51*	*10*

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Analyte	Result	Qualifier	PQL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	3.1	U	10	3.1	pg/L		08/07/12 09:00	08/14/12 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*110*		*42 - 164*	*08/07/12 09:00*	*08/14/12 00:30*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*66*		*31 - 137*	*08/07/12 09:00*	*08/14/12 00:30*	*1*

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: COMP-1
Date Collected: 07/25/12 13:30
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**77000**		2500	1200	ug/L		08/01/12 09:52	08/02/12 09:10	1
Sodium	**2900**		50	14	mg/L		08/01/12 09:52	08/02/12 09:10	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	120	U	250	120	ug/L		07/30/12 16:27	08/03/12 06:24	1
Arsenic	**270**		130	65	ug/L		07/30/12 16:27	08/03/12 06:24	1
Barium	**160**	**I**	250	65	ug/L		07/30/12 16:27	08/03/12 06:24	1
Beryllium	13	U	25	13	ug/L		07/30/12 16:27	08/03/12 06:24	1
Cadmium	4.8	U	25	4.8	ug/L		07/30/12 16:27	08/03/12 06:24	1
Chromium	**270**		250	130	ug/L		07/30/12 16:27	08/03/12 06:24	1
Cobalt	**65**		25	7.5	ug/L		07/30/12 16:27	08/03/12 06:24	1
Copper	55	U	250	55	ug/L		07/30/12 16:27	08/03/12 06:24	1
Lead	10	U	75	10	ug/L		07/30/12 16:27	08/03/12 06:24	1
Nickel	**260**		250	100	ug/L		07/30/12 16:27	08/03/12 06:24	1
Selenium	50	U	130	50	ug/L		07/30/12 16:27	08/03/12 06:24	1
Silver	13	U	50	13	ug/L		07/30/12 16:27	08/03/12 06:24	1
Thallium	25	U	50	25	ug/L		07/30/12 16:27	08/03/12 06:24	1
Tin	**150**	**I**	250	65	ug/L		07/30/12 16:27	08/03/12 06:24	1
Vanadium	190	U	500	190	ug/L		07/30/12 16:27	08/03/12 06:24	1
Zinc	**1100**		1000	420	ug/L		07/30/12 16:27	08/03/12 06:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	**I**	0.20	0.091	ug/L		07/31/12 11:09	08/01/12 14:17	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3100**		100	20	mg/L			08/07/12 12:43	100
Ammonia	**1700**		50	26	mg/L			08/06/12 16:21	1000
Nitrate Nitrite as N	0.20	U	1.0	0.20	mg/L			08/07/12 14:08	20
Nitrate as N	0.094	U	0.20	0.094	mg/L			08/09/12 14:16	20
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/06/12 14:09	1
Total Dissolved Solids	**12000**		250	250	mg/L			08/01/12 16:09	1
Cyanide, Total	**0.028**		0.010	0.0025	mg/L		08/01/12 07:15	08/01/12 11:37	1
Sulfide	**17**		10	10	mg/L			07/31/12 10:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.35**				SU			07/25/12 13:30	1
Field Temperature	**38.2**				Degrees C			07/25/12 13:30	1
Specific Conductance	**22810**				umhos/cm			07/25/12 13:30	1
Oxygen, Dissolved	**0.2**				mg/L			07/25/12 13:30	1
Color	**Black**				PCU			07/25/12 13:30	1
Sheen	**Yes**				NONE			07/25/12 13:30	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**31**		25	2.8	ug/L			07/31/12 18:08	1
Acetonitrile	35	U	200	35	ug/L			07/31/12 18:08	1
Acrolein	7.5	U	20	7.5	ug/L			07/31/12 18:08	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 18:08	1
Benzene	**1.3**		1.0	0.13	ug/L			07/31/12 18:08	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 18:08	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 18:08	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 18:08	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 18:08	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 18:08	1
Chlorobenzene	**0.80**	**I**	1.0	0.13	ug/L			07/31/12 18:08	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 18:08	1
2-Chloro-1,3-butadiene	0.14	U	1.0	0.14	ug/L			07/31/12 18:08	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 18:08	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 18:08	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 18:08	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 18:08	1
3-Chloro-1-propene	0.34	U	1.0	0.34	ug/L			07/31/12 18:08	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 18:08	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 18:08	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 18:08	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 18:08	1
Dichlorodifluoromethane	0.28	U	1.0	0.28	ug/L			07/31/12 18:08	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 18:08	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 18:08	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 18:08	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 18:08	1
1,3-Dichloropropane	0.13	U	1.0	0.13	ug/L			07/31/12 18:08	1
2,2-Dichloropropane	0.20	U	1.0	0.20	ug/L			07/31/12 18:08	1
1,1-Dichloropropene	0.13	U	1.0	0.13	ug/L			07/31/12 18:08	1
Ethylbenzene	**3.2**		1.0	0.16	ug/L			07/31/12 18:08	1
Ethyl methacrylate	0.15	U	1.0	0.15	ug/L			07/31/12 18:08	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 18:08	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 18:08	1
Isobutyl alcohol	15	U	200	15	ug/L			07/31/12 18:08	1
Methacrylonitrile	1.2	U	20	1.2	ug/L			07/31/12 18:08	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 18:08	1
Methyl methacrylate	0.29	U	1.0	0.29	ug/L			07/31/12 18:08	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 18:08	1
m-Xylene & p-Xylene	**12**		2.0	0.30	ug/L			07/31/12 18:08	1
o-Xylene	**4.1**		1.0	0.15	ug/L			07/31/12 18:08	1
Propionitrile	3.8	U	20	3.8	ug/L			07/31/12 18:08	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 18:08	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 18:08	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 18:08	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 18:08	1
Toluene	**3.4**		1.0	0.14	ug/L			07/31/12 18:08	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 18:08	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 18:08	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 18:08	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 18:08	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 18:08	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 18:08	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 18:08	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 18:08	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 18:08	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 18:08	1
Xylenes, Total	**16**		2.0	0.44	ug/L			07/31/12 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*87 - 114*		*07/31/12 18:08*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*07/31/12 18:08*	*1*
Toluene-d8 (Surr)	*98*		*87 - 112*		*07/31/12 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.70	U	10	0.70	ug/L		07/31/12 12:06	08/13/12 23:16	1
Acenaphthylene	0.85	U	10	0.85	ug/L		07/31/12 12:06	08/13/12 23:16	1
Acetophenone	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Acetylaminofluorene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Aminobiphenyl	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 23:16	1
Anthracene	1.3	U	10	1.3	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzo[a]anthracene	0.85	U	10	0.85	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzo[b]fluoranthene	0.98	U	10	0.98	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzo[k]fluoranthene	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzo[g,h,i]perylene	1.4	U	10	1.4	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
Benzyl alcohol	0.78	U	10	0.78	ug/L		07/31/12 12:06	08/13/12 23:16	1
Bis(2-chloroethoxy)methane	0.72	U	10	0.72	ug/L		07/31/12 12:06	08/13/12 23:16	1
Bis(2-chloroethyl)ether	0.59	U	10	0.59	ug/L		07/31/12 12:06	08/13/12 23:16	1
Bis(2-ethylhexyl) phthalate	**1.6**	**I V**	10	0.65	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Bromophenyl phenyl ether	1.3	U J	10	1.3	ug/L		07/31/12 12:06	08/13/12 23:16	1
Butyl benzyl phthalate	0.89	U	10	0.89	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Chloroaniline	0.68	U	20	0.68	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Chloro-3-methylphenol	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Chloronaphthalene	0.60	U	10	0.60	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Chlorophenol	0.52	U	10	0.52	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Chlorophenyl phenyl ether	0.88	U	10	0.88	ug/L		07/31/12 12:06	08/13/12 23:16	1
Chrysene	0.95	U	10	0.95	ug/L		07/31/12 12:06	08/13/12 23:16	1
Diallate	0.46	U	10	0.46	ug/L		07/31/12 12:06	08/13/12 23:16	1
Dibenz(a,h)anthracene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
Dibenzofuran	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 23:16	1
Di-n-butyl phthalate	1.7	U J	10	1.7	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,2-Dichlorobenzene	0.44	U	10	0.44	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,3-Dichlorobenzene	0.42	U	10	0.42	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,4-Dichlorobenzene	**5.4**	**I**	10	0.39	ug/L		07/31/12 12:06	08/13/12 23:16	1
3,3'-Dichlorobenzidine	0.75	U	20	0.75	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4-Dichlorophenol	0.72	U	10	0.72	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,6-Dichlorophenol	0.86	U	10	0.86	ug/L		07/31/12 12:06	08/13/12 23:16	1
Diethyl phthalate	1.4	U	10	1.4	ug/L		07/31/12 12:06	08/13/12 23:16	1
p-Dimethylamino azobenzene	0.39	U	10	0.39	ug/L		07/31/12 12:06	08/13/12 23:16	1
7,12-Dimethylbenz(a)anthracene	0.34	U	10	0.34	ug/L		07/31/12 12:06	08/13/12 23:16	1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	3.0	U	20	3.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4-Dimethylphenol	0.75	U	10	0.75	ug/L		07/31/12 12:06	08/13/12 23:16	1
Dimethyl phthalate	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,3-Dinitrobenzene	1.7	U	50	1.7	ug/L		07/31/12 12:06	08/13/12 23:16	1
4,6-Dinitro-2-methylphenol	0.96	U	50	0.96	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4-Dinitrophenol	3.9	U	50	3.9	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,6-Dinitrotoluene	0.88	U	10	0.88	ug/L		07/31/12 12:06	08/13/12 23:16	1
Dinoseb	0.98	U	10	0.98	ug/L		07/31/12 12:06	08/13/12 23:16	1
Di-n-octyl phthalate	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 23:16	1
Ethyl methanesulfonate	0.92	U	10	0.92	ug/L		07/31/12 12:06	08/13/12 23:16	1
Fluoranthene	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 23:16	1
Fluorene	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
Hexachlorobenzene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
Hexachlorobutadiene	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 23:16	1
Hexachlorocyclopentadiene	0.21	U J	10	0.21	ug/L		07/31/12 12:06	08/13/12 23:16	1
Hexachloroethane	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 23:16	1
Hexachloropropene	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 23:16	1
Indeno[1,2,3-cd]pyrene	1.3	U	10	1.3	ug/L		07/31/12 12:06	08/13/12 23:16	1
Isophorone	0.81	U	10	0.81	ug/L		07/31/12 12:06	08/13/12 23:16	1
Isosafrole	0.90	U	10	0.90	ug/L		07/31/12 12:06	08/13/12 23:16	1
Kepone	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 23:16	1
Methapyrilene	1.0	U	2000	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
3-Methylcholanthrene	0.61	U	10	0.61	ug/L		07/31/12 12:06	08/13/12 23:16	1
Methyl methanesulfonate	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Methylnaphthalene	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Methylphenol	**3.6**	**I**	10	0.78	ug/L		07/31/12 12:06	08/13/12 23:16	1
3 & 4 Methylphenol	0.76	U	10	0.76	ug/L		07/31/12 12:06	08/13/12 23:16	1
Naphthalene	**2.5**	**I**	10	0.57	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,4-Naphthoquinone	0.34	U	10	0.34	ug/L		07/31/12 12:06	08/13/12 23:16	1
1-Naphthylamine	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Naphthylamine	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Nitroaniline	0.84	U	50	0.84	ug/L		07/31/12 12:06	08/13/12 23:16	1
3-Nitroaniline	1.4	U	50	1.4	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Nitroaniline	1.2	U	50	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
Nitrobenzene	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 23:16	1
2-Nitrophenol	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 23:16	1
4-Nitrophenol	1.3	U	50	1.3	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitro-o-toluidine	0.74	U	10	0.74	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosodiethylamine	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosodimethylamine	3.1	U	10	3.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosodi-n-butylamine	0.66	U	10	0.66	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosodi-n-propylamine	0.82	U	10	0.82	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosodiphenylamine	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosomethylethylamine	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosopiperidine	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
N-Nitrosopyrrolidine	0.70	U	10	0.70	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,2'-oxybis[1-chloropropane]	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 23:16	1
Pentachlorobenzene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
Pentachloronitrobenzene	0.54	U	10	0.54	ug/L		07/31/12 12:06	08/13/12 23:16	1
Pentachlorophenol	1.1	U	50	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenacetin	0.53	U	10	0.53	ug/L		07/31/12 12:06	08/13/12 23:16	1
Phenanthrene	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 23:16	1
Phenol	0.69	U	10	0.69	ug/L		07/31/12 12:06	08/13/12 23:16	1
p-Phenylene diamine	500	U	2000	500	ug/L		07/31/12 12:06	08/13/12 23:16	1
Pronamide	0.35	U	10	0.35	ug/L		07/31/12 12:06	08/13/12 23:16	1
Pyrene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 23:16	1
Safrole, Total	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,2,4,5-Tetrachlorobenzene	0.90	U	10	0.90	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,3,4,6-Tetrachlorophenol	3.8	U	10	3.8	ug/L		07/31/12 12:06	08/13/12 23:16	1
o-Toluidine	**10**		10	0.64	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,2,4-Trichlorobenzene	0.51	U	10	0.51	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4,5-Trichlorophenol	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 23:16	1
2,4,6-Trichlorophenol	0.93	U	10	0.93	ug/L		07/31/12 12:06	08/13/12 23:16	1
o,o',o''-Triethylphosphorothioate	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 23:16	1
1,3,5-Trinitrobenzene	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*39 - 123*	*07/31/12 12:06*	*08/13/12 23:16*	*1*
2-Fluorobiphenyl	*81*		*31 - 113*	*07/31/12 12:06*	*08/13/12 23:16*	*1*
Terphenyl-d14	*41*		*10 - 138*	*07/31/12 12:06*	*08/13/12 23:16*	*1*
Phenol-d5	*71*		*23 - 123*	*07/31/12 12:06*	*08/13/12 23:16*	*1*
2-Fluorophenol	*70*		*27 - 111*	*07/31/12 12:06*	*08/13/12 23:16*	*1*
2,4,6-Tribromophenol	*77*		*42 - 128*	*07/31/12 12:06*	*08/13/12 23:16*	*1*

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	**0.011**	**I**	0.019	0.0057	ug/L		08/06/12 12:22	08/07/12 17:43	1
Ethylene Dibromide	0.0061	U	0.019	0.0061	ug/L		08/06/12 12:22	08/07/12 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*107*		*56 - 144*	*08/06/12 12:22*	*08/07/12 17:43*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.00088	U	0.10	0.00088	ug/L		07/30/12 14:02	08/02/12 17:57	1
4,4'-DDE	0.0010	U	0.10	0.0010	ug/L		07/30/12 14:02	08/02/12 17:57	1
alpha-BHC	0.0030	U	0.050	0.0030	ug/L		07/30/12 14:02	08/02/12 17:57	1
beta-BHC	0.0040	U	0.050	0.0040	ug/L		07/30/12 14:02	08/02/12 17:57	1
Chlordane (technical)	0.096	U	0.50	0.096	ug/L		07/30/12 14:02	08/02/12 17:57	1
delta-BHC	0.0029	U	0.050	0.0029	ug/L		07/30/12 14:02	08/02/12 17:57	1
Endosulfan I	0.00094	U	0.050	0.00094	ug/L		07/30/12 14:02	08/02/12 17:57	1
Endosulfan II	0.0018	U	0.10	0.0018	ug/L		07/30/12 14:02	08/02/12 17:57	1
Endosulfan sulfate	0.0028	U	0.10	0.0028	ug/L		07/30/12 14:02	08/02/12 17:57	1
Endrin aldehyde	**0.0038**	**I**	0.10	0.00079	ug/L		07/30/12 14:02	08/02/12 17:57	1
Chlorobenzilate	0.055	U	0.50	0.055	ug/L		07/30/12 14:02	08/08/12 13:59	1
Heptachlor epoxide	**0.0023**	**I**	0.050	0.0013	ug/L		07/30/12 14:02	08/02/12 17:57	1
Isodrin	0.0079	U	0.050	0.0079	ug/L		07/30/12 14:02	08/08/12 13:59	1
Methoxychlor	0.0021	U	0.50	0.0021	ug/L		07/30/12 14:02	08/02/12 17:57	1
PCB-1016	0.17	U	1.0	0.17	ug/L		07/30/12 14:02	08/06/12 18:11	1
PCB-1221	0.18	U	2.0	0.18	ug/L		07/30/12 14:02	08/06/12 18:11	1
PCB-1232	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 18:11	1
PCB-1242	0.094	U	1.0	0.094	ug/L		07/30/12 14:02	08/06/12 18:11	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 18:11	1
PCB-1254	0.10	U	1.0	0.10	ug/L		07/30/12 14:02	08/06/12 18:11	1
PCB-1260	0.087	U	1.0	0.087	ug/L		07/30/12 14:02	08/06/12 18:11	1
Toxaphene	0.24	U	5.0	0.24	ug/L		07/30/12 14:02	08/02/12 17:57	1
4,4'-DDT	**0.0093**	**I**	0.10	0.0035	ug/L		07/30/12 14:02	08/02/12 17:57	1
Aldrin	0.0013	U	0.050	0.0013	ug/L		07/30/12 14:02	08/02/12 17:57	1
Dieldrin	0.00078	U	0.10	0.00078	ug/L		07/30/12 14:02	08/02/12 17:57	1
Endrin	0.00064	U	0.10	0.00064	ug/L		07/30/12 14:02	08/02/12 17:57	1
gamma-BHC (Lindane)	0.0011	U	0.050	0.0011	ug/L		07/30/12 14:02	08/02/12 17:57	1
Heptachlor	0.0015	U	0.050	0.0015	ug/L		07/30/12 14:02	08/02/12 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*		*10 - 120*	*07/30/12 14:02*	*08/06/12 18:11*	*1*
Dibutylchlorendate	*34*		*10 - 130*	*07/30/12 14:02*	*08/06/12 18:11*	*1*
Tetrachloro-m-xylene	*29*		*10 - 110*	*07/30/12 14:02*	*08/06/12 18:11*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	0.32	U	2.0	0.32	ug/L		07/30/12 14:02	08/01/12 14:12	1
Disulfoton	0.12	U	2.0	0.12	ug/L		07/30/12 14:02	08/01/12 14:12	1
Famphur	0.11	U	2.0	0.11	ug/L		07/30/12 14:02	08/01/12 14:12	1
Methyl parathion	0.12	U	0.50	0.12	ug/L		07/30/12 14:02	08/01/12 14:12	1
Ethyl Parathion	0.080	U	1.0	0.080	ug/L		07/30/12 14:02	08/01/12 14:12	1
Phorate	0.16	U	1.0	0.16	ug/L		07/30/12 14:02	08/01/12 14:12	1
Thionazin	0.061	U	1.0	0.061	ug/L		07/30/12 14:02	08/01/12 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*55*		*37 - 139*	*07/30/12 14:02*	*08/01/12 14:12*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.37	U	5.0	0.37	ug/L		07/30/12 08:03	08/01/12 12:37	1
2,4,5-T	0.62	U	5.0	0.62	ug/L		07/30/12 08:03	08/01/12 12:37	1
Silvex (2,4,5-TP)	0.62	U	5.0	0.62	ug/L		07/30/12 08:03	08/01/12 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*145*		*52 - 151*	*07/30/12 08:03*	*08/01/12 12:37*	*1*

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Analyte	Result	Qualifier	PQL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	4.8	U	10	4.8	pg/L		08/07/12 09:00	08/14/12 01:07	1.01

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*108*		*42 - 164*	*08/07/12 09:00*	*08/14/12 01:07*	*1.01*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*52*		*31 - 137*	*08/07/12 09:00*	*08/14/12 01:07*	*1.01*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**27000**		50	24	ug/L		08/01/12 09:52	08/02/12 09:17	1
Sodium	**880**		100	28	mg/L		08/01/12 09:52	08/02/12 17:27	100

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: TANK-6
Date Collected: 07/25/12 14:10
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		5.0	2.3	ug/L		07/30/12 16:27	08/03/12 06:30	1
Arsenic	58		2.5	1.3	ug/L		07/30/12 16:27	08/03/12 06:30	1
Barium	410		5.0	1.3	ug/L		07/30/12 16:27	08/03/12 06:30	1
Beryllium	0.25	U	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 06:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 06:30	1
Chromium	82		5.0	2.5	ug/L		07/30/12 16:27	08/03/12 06:30	1
Cobalt	20		0.50	0.15	ug/L		07/30/12 16:27	08/03/12 06:30	1
Copper	180		5.0	1.1	ug/L		07/30/12 16:27	08/03/12 06:30	1
Lead	17		1.5	0.20	ug/L		07/30/12 16:27	08/03/12 06:30	1
Nickel	87		5.0	2.0	ug/L		07/30/12 16:27	08/03/12 06:30	1
Selenium	2.9		2.5	1.0	ug/L		07/30/12 16:27	08/03/12 06:30	1
Silver	0.25	U	1.0	0.25	ug/L		07/30/12 16:27	08/03/12 06:30	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 06:30	1
Tin	28		5.0	1.3	ug/L		07/30/12 16:27	08/03/12 06:30	1
Vanadium	37		10	3.8	ug/L		07/30/12 16:27	08/03/12 06:30	1
Zinc	190		20	8.3	ug/L		07/30/12 16:27	08/03/12 06:30	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		07/31/12 11:09	08/01/12 14:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		100	20	mg/L			08/07/12 12:55	100
Ammonia	570		50	26	mg/L			08/06/12 16:21	1000
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			08/07/12 14:10	10
Nitrate as N	0.047	U	0.10	0.047	mg/L			08/09/12 14:16	10
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/06/12 14:36	1
Total Dissolved Solids	3100		250	250	mg/L			08/01/12 16:09	1
Cyanide, Total	0.011		0.010	0.0025	mg/L		08/01/12 07:15	08/01/12 11:38	1
Sulfide	10	U	10	10	mg/L			07/31/12 10:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.52				SU			07/25/12 14:10	1
Field Temperature	33.8				Degrees C			07/25/12 14:10	1
Specific Conductance	9123				umhos/cm			07/25/12 14:10	1
Oxygen, Dissolved	0.1				mg/L			07/25/12 14:10	1
Color	Amber				PCU			07/25/12 14:10	1
Sheen	Yes				NONE			07/25/12 14:10	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: Trip Blank 39704
Date Collected: 07/25/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 13:05	1
Acetonitrile	35	U	200	35	ug/L			07/31/12 13:05	1
Acrolein	7.5	U	20	7.5	ug/L			07/31/12 13:05	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 13:05	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 13:05	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 13:05	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 13:05	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 13:05	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 13:05	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 13:05	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 13:05	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 13:05	1
2-Chloro-1,3-butadiene	0.14	U	1.0	0.14	ug/L			07/31/12 13:05	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 13:05	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 13:05	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 13:05	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 13:05	1
3-Chloro-1-propene	0.34	U	1.0	0.34	ug/L			07/31/12 13:05	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 13:05	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 13:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 13:05	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 13:05	1
Dichlorodifluoromethane	0.28	U	1.0	0.28	ug/L			07/31/12 13:05	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 13:05	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 13:05	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 13:05	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 13:05	1
1,3-Dichloropropane	0.13	U	1.0	0.13	ug/L			07/31/12 13:05	1
2,2-Dichloropropane	0.20	U	1.0	0.20	ug/L			07/31/12 13:05	1
1,1-Dichloropropene	0.13	U	1.0	0.13	ug/L			07/31/12 13:05	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 13:05	1
Ethyl methacrylate	0.15	U	1.0	0.15	ug/L			07/31/12 13:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 13:05	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 13:05	1
Isobutyl alcohol	15	U	200	15	ug/L			07/31/12 13:05	1
Methacrylonitrile	1.2	U	20	1.2	ug/L			07/31/12 13:05	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 13:05	1
Methyl methacrylate	0.29	U	1.0	0.29	ug/L			07/31/12 13:05	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 13:05	1
m-Xylene & p-Xylene	0.30	U	2.0	0.30	ug/L			07/31/12 13:05	1
o-Xylene	0.15	U	1.0	0.15	ug/L			07/31/12 13:05	1
Propionitrile	3.8	U	20	3.8	ug/L			07/31/12 13:05	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 13:05	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 13:05	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 13:05	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 13:05	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 13:05	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 13:05	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 13:05	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 13:05	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 13:05	1

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

TestAmerica Job ID: 640-39704-1

Client Sample ID: Trip Blank 39704
Date Collected: 07/25/12 00:00
Date Received: 07/27/12 08:00

Lab Sample ID: 640-39704-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 13:05	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 13:05	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 13:05	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 13:05	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 13:05	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 13:05	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*07/31/12 13:05*	*1*
Dibromofluoromethane	*97*		*81 - 113*		*07/31/12 13:05*	*1*
Toluene-d8 (Surr)	*97*		*87 - 112*		*07/31/12 13:05*	*1*

Surrogate Summary

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

TestAmerica Job ID: 640-39704-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(87-114)	(81-113)	(87-112)
640-39704-1	COMP-1	100	98	100
640-39704-2	TANK-6	102	101	98
640-39704-3	Trip Blank 39704	99	97	97
LCS 640-94641/3	Lab Control Sample	102	99	99
LCSD 640-94641/4	Lab Control Sample Dup	101	100	100
MB 640-94641/28	Method Blank	97	96	100

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(39-123)	(31-113)	(10-138)	(23-123)	(27-111)	(42-128)
640-39704-1	COMP-1	80	67	28	86	63	61
640-39704-2	TANK-6	82	81	41	71	70	77
640-39704-2 MS	TANK-6	85	86	38	71	71	85
640-39704-2 MSD	TANK-6	76	80	34	64	62	83
LCS 640-94588/2-A	Lab Control Sample	117	116 J	122	63	44	82
LCS 640-94621/2-A	Lab Control Sample	92	101	105	80	82	89
LCSD 640-94588/3-A	Lab Control Sample Dup	118	118 J	126	80	68	94
LCSD 640-94621/3-A	Lab Control Sample Dup	92	97	104	72	69	87
MB 640-94588/1-A	Method Blank	107	109	128	55	38	72
MB 640-94621/1-A	Method Blank	83	102	103	72	76	87

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA2
Lab Sample ID	Client Sample ID	(56-144)
640-39704-1	COMP-1	108
640-39704-2	TANK-6	107
LCS 640-94825/2-A	Lab Control Sample	101
LCSD 640-94825/3-A	Lab Control Sample Dup	102

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

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

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

		Percent Surrogate Recovery (Acceptance Limits)								
		TCEA1								
Lab Sample ID	Client Sample ID	(56-144)								
MB 640-94825/1-A	Method Blank	96								

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB2	DBC1	TCX2						
Lab Sample ID	Client Sample ID	(10-120)	(10-130)	(10-110)						
640-39704-1	COMP-1	12	8 J	23						
640-39704-2	TANK-6	31	34	29						
640-39704-2 MS	TANK-6	12	10	6 J						
640-39704-2 MSD	TANK-6	13	12	8 J						
LCS 640-94585/19-A	Lab Control Sample	43	67	40						
LCSD 640-94585/20-A	Lab Control Sample Dup	47	67	43						

Surrogate Legend

DCB = DCB Decachlorobiphenyl
DBC = Dibutylchlorendate
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB2	DBC2	TCX2						
Lab Sample ID	Client Sample ID	(10-120)	(10-130)	(10-110)						
LCS 640-94585/2-A	Lab Control Sample	71	96	58						
LCSD 640-94585/3-A	Lab Control Sample Dup	54	89	56						
MB 640-94585/1-A	Method Blank	67	67	41						

Surrogate Legend

DCB = DCB Decachlorobiphenyl
DBC = Dibutylchlorendate
TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

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

		Percent Surrogate Recovery (Acceptance Limits)								
		TPP1								
Lab Sample ID	Client Sample ID	(37-139)								
640-39704-1	COMP-1	38								
640-39704-2	TANK-6	55								
640-39704-2 MS	TANK-6	22 J								
640-39704-2 MSD	TANK-6	30 J								

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP1
Lab Sample ID	Client Sample ID	(37-139)
LCS 640-94585/6-A	Lab Control Sample	95
LCSD 640-94585/7-A	Lab Control Sample Dup	95
MB 640-94585/1-A	Method Blank	98

Surrogate Legend

TPP = Triphenylphosphate (TPP)

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(52-151)	(52-151)
640-39704-1	COMP-1	0	0
640-39704-2	TANK-6	145	109
LCS 680-244903/22-A	Lab Control Sample	84	100
MB 680-244903/21-A	Method Blank	80	91

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		37TCDD
Lab Sample ID	Client Sample ID	(37-158)
G2H060000128C	Lab Control Sample	110
G2H060000128L	Lab Control Sample Dup	116

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		37TCDD
Lab Sample ID	Client Sample ID	(42-164)
640-39704-1	COMP-1	110
640-39704-2	TANK-6	108
G2H060000128B	Method Blank	99

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Internal Standards Summary

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

TestAmerica Job ID: 640-39704-1

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD							
Lab Sample ID	Client Sample ID	(31-137)							
640-39704-1	COMP-1	66							
640-39704-2	TANK-6	52							
G2H060000128B	Method Blank	42							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD							
Lab Sample ID	Client Sample ID	(25-141)							
G2H060000128C	Lab Control Sample	49							
G2H060000128L	Lab Control Sample Dup	38							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD

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

TestAmerica Job ID: 640-39704-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 640-94641/28
Matrix: Water
Analysis Batch: 94641

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			07/31/12 12:22	1
Acetonitrile	35	U	200	35	ug/L			07/31/12 12:22	1
Acrolein	7.5	U	20	7.5	ug/L			07/31/12 12:22	1
Acrylonitrile	3.0	U	20	3.0	ug/L			07/31/12 12:22	1
Benzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
Bromoform	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
Bromomethane	0.51	U	1.0	0.51	ug/L			07/31/12 12:22	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			07/31/12 12:22	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
2-Chloro-1,3-butadiene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
Chloroethane	0.33	U	1.0	0.33	ug/L			07/31/12 12:22	1
Chloroform	0.12	U	1.0	0.12	ug/L			07/31/12 12:22	1
Chloromethane	0.18	U	1.0	0.18	ug/L			07/31/12 12:22	1
3-Chloro-1-propene	0.34	U	1.0	0.34	ug/L			07/31/12 12:22	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			07/31/12 12:22	1
Dichlorodifluoromethane	0.28	U	1.0	0.28	ug/L			07/31/12 12:22	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			07/31/12 12:22	1
1,3-Dichloropropane	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
2,2-Dichloropropane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
1,1-Dichloropropene	0.13	U	1.0	0.13	ug/L			07/31/12 12:22	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
Ethyl methacrylate	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
2-Hexanone	1.0	U	10	1.0	ug/L			07/31/12 12:22	1
Iodomethane	0.13	U	5.0	0.13	ug/L			07/31/12 12:22	1
Isobutyl alcohol	15	U	200	15	ug/L			07/31/12 12:22	1
Methacrylonitrile	1.2	U	20	1.2	ug/L			07/31/12 12:22	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			07/31/12 12:22	1
Methyl methacrylate	0.29	U	1.0	0.29	ug/L			07/31/12 12:22	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			07/31/12 12:22	1
m-Xylene & p-Xylene	0.30	U	2.0	0.30	ug/L			07/31/12 12:22	1
o-Xylene	0.15	U	1.0	0.15	ug/L			07/31/12 12:22	1
Propionitrile	3.8	U	20	3.8	ug/L			07/31/12 12:22	1
Styrene	0.12	U	1.0	0.12	ug/L			07/31/12 12:22	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			07/31/12 12:22	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			07/31/12 12:22	1
Toluene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			07/31/12 12:22	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			07/31/12 12:22	1

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

Lab Sample ID: MB 640-94641/28
Matrix: Water
Analysis Batch: 94641

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			07/31/12 12:22	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			07/31/12 12:22	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			07/31/12 12:22	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			07/31/12 12:22	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			07/31/12 12:22	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			07/31/12 12:22	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			07/31/12 12:22	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			07/31/12 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*07/31/12 12:22*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*07/31/12 12:22*	*1*
Toluene-d8 (Surr)	*100*		*87 - 112*		*07/31/12 12:22*	*1*

Lab Sample ID: LCS 640-94641/3
Matrix: Water
Analysis Batch: 94641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	309		ug/L		103	64 - 132
Acetonitrile	1500	1530		ug/L		102	43 - 150
Acrolein	600	565		ug/L		94	54 - 149
Acrylonitrile	600	597		ug/L		99	72 - 124
Benzene	30.0	29.0		ug/L		97	80 - 120
Bromoform	30.0	31.0		ug/L		103	64 - 132
Bromomethane	30.0	27.1		ug/L		90	37 - 146
2-Butanone (MEK)	300	298		ug/L		99	66 - 132
Carbon disulfide	30.0	35.2		ug/L		117	72 - 132
Carbon tetrachloride	30.0	30.9		ug/L		103	79 - 126
Chlorobenzene	30.0	29.8		ug/L		99	82 - 116
Chlorobromomethane	30.0	29.6		ug/L		99	72 - 124
2-Chloro-1,3-butadiene	30.0	32.5		ug/L		108	70 - 128
Chlorodibromomethane	30.0	32.0		ug/L		107	73 - 125
Chloroethane	30.0	41.6		ug/L		139	47 - 160
Chloroform	30.0	29.0		ug/L		97	81 - 120
Chloromethane	30.0	24.4		ug/L		81	61 - 136
3-Chloro-1-propene	30.0	32.0		ug/L		107	63 - 139
cis-1,2-Dichloroethene	30.0	30.0		ug/L		100	75 - 128
cis-1,3-Dichloropropene	30.0	31.7		ug/L		106	79 - 120
Dibromomethane	30.0	29.0		ug/L		97	80 - 119
Dichlorobromomethane	30.0	30.0		ug/L		100	82 - 120
Dichlorodifluoromethane	30.0	29.8		ug/L		99	57 - 170
1,1-Dichloroethane	30.0	30.1		ug/L		100	78 - 124
1,2-Dichloroethane	30.0	28.0		ug/L		93	82 - 123
1,1-Dichloroethene	30.0	31.6		ug/L		105	72 - 133
1,2-Dichloropropane	30.0	29.2		ug/L		97	78 - 121
1,3-Dichloropropane	30.0	29.2		ug/L		97	70 - 124
2,2-Dichloropropane	30.0	30.5		ug/L		102	76 - 132

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

Lab Sample ID: LCS 640-94641/3
Matrix: Water
Analysis Batch: 94641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	30.0	30.4		ug/L		101	84 - 123
Ethylbenzene	30.0	30.8		ug/L		103	85 - 119
Ethyl methacrylate	30.0	30.8		ug/L		103	67 - 129
2-Hexanone	300	317		ug/L		106	54 - 132
Iodomethane	30.0	30.4	L	ug/L		101	32 - 169
Isobutyl alcohol	1500	1640		ug/L		109	45 - 135
Methacrylonitrile	300	315		ug/L		105	50 - 136
Methylene Chloride	30.0	29.8		ug/L		99	75 - 125
Methyl methacrylate	30.0	32.6		ug/L		109	66 - 131
4-Methyl-2-pentanone (MIBK)	300	318		ug/L		106	67 - 134
m-Xylene & p-Xylene	60.0	61.2		ug/L		102	86 - 123
o-Xylene	30.0	31.6		ug/L		105	85 - 123
Propionitrile	300	290		ug/L		97	68 - 126
Styrene	30.0	32.3		ug/L		108	86 - 121
1,1,1,2-Tetrachloroethane	30.0	31.9		ug/L		106	80 - 118
1,1,2,2-Tetrachloroethane	30.0	28.9		ug/L		96	78 - 118
Tetrachloroethene	30.0	31.3		ug/L		104	81 - 126
Toluene	30.0	29.3		ug/L		98	82 - 122
trans-1,4-Dichloro-2-butene	60.0	59.9		ug/L		100	76 - 128
trans-1,2-Dichloroethene	30.0	30.7		ug/L		102	77 - 128
trans-1,3-Dichloropropene	30.0	32.0		ug/L		107	76 - 122
1,1,1-Trichloroethane	30.0	30.9		ug/L		103	85 - 122
1,1,2-Trichloroethane	30.0	29.8		ug/L		99	76 - 122
Trichloroethene	30.0	29.5		ug/L		98	82 - 121
Trichlorofluoromethane	30.0	28.0		ug/L		93	84 - 139
1,2,3-Trichloropropane	30.0	30.1		ug/L		100	79 - 128
Vinyl acetate	60.0	61.5		ug/L		102	39 - 185
Vinyl chloride	30.0	26.7		ug/L		89	70 - 139
Xylenes, Total	90.0	92.7		ug/L		103	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*87 - 114*
Dibromofluoromethane	*99*		*81 - 113*
Toluene-d8 (Surr)	*99*		*87 - 112*

Lab Sample ID: LCSD 640-94641/4
Matrix: Water
Analysis Batch: 94641

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	300	304		ug/L		101	64 - 132	2	28
Acetonitrile	1500	1540		ug/L		103	43 - 150	1	32
Acrolein	600	556		ug/L		93	54 - 149	2	38
Acrylonitrile	600	590		ug/L		98	72 - 124	1	40
Benzene	30.0	28.9		ug/L		96	80 - 120	0	20
Bromoform	30.0	30.7		ug/L		102	64 - 132	1	20
Bromomethane	30.0	35.4	L	ug/L		118	37 - 146	27	38
2-Butanone (MEK)	300	300		ug/L		100	66 - 132	1	28
Carbon disulfide	30.0	34.7		ug/L		116	72 - 132	1	23

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

Lab Sample ID: LCSD 640-94641/4
Matrix: Water
Analysis Batch: 94641

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	30.0	30.5		ug/L		102	79 - 126	2	20
Chlorobenzene	30.0	29.1		ug/L		97	82 - 116	2	20
Chlorobromomethane	30.0	30.7		ug/L		102	72 - 124	4	20
2-Chloro-1,3-butadiene	30.0	32.1		ug/L		107	70 - 128	1	20
Chlorodibromomethane	30.0	31.9		ug/L		106	73 - 125	0	20
Chloroethane	30.0	36.5		ug/L		122	47 - 160	13	35
Chloroform	30.0	29.2		ug/L		97	81 - 120	1	20
Chloromethane	30.0	25.6		ug/L		85	61 - 136	5	20
3-Chloro-1-propene	30.0	32.1		ug/L		107	63 - 139	0	25
cis-1,2-Dichloroethene	30.0	30.1		ug/L		100	75 - 128	0	20
cis-1,3-Dichloropropene	30.0	32.0		ug/L		107	79 - 120	1	20
Dibromomethane	30.0	29.6		ug/L		99	80 - 119	2	20
Dichlorobromomethane	30.0	29.9		ug/L		100	82 - 120	0	20
Dichlorodifluoromethane	30.0	28.4		ug/L		95	57 - 170	5	39
1,1-Dichloroethane	30.0	31.0		ug/L		103	78 - 124	3	20
1,2-Dichloroethane	30.0	28.6		ug/L		95	82 - 123	2	20
1,1-Dichloroethene	30.0	32.1		ug/L		107	72 - 133	2	24
1,2-Dichloropropane	30.0	28.9		ug/L		96	78 - 121	1	20
1,3-Dichloropropane	30.0	29.5		ug/L		98	70 - 124	1	20
2,2-Dichloropropane	30.0	30.0		ug/L		100	76 - 132	2	20
1,1-Dichloropropene	30.0	30.3		ug/L		101	84 - 123	0	20
Ethylbenzene	30.0	30.1		ug/L		100	85 - 119	2	20
Ethyl methacrylate	30.0	31.3		ug/L		104	67 - 129	2	28
2-Hexanone	300	303		ug/L		101	54 - 132	4	32
Iodomethane	30.0	31.6	L	ug/L		105	32 - 169	4	40
Isobutyl alcohol	1500	1520		ug/L		101	45 - 135	8	48
Methacrylonitrile	300	319		ug/L		106	50 - 136	1	39
Methylene Chloride	30.0	30.2		ug/L		101	75 - 125	1	22
Methyl methacrylate	30.0	30.8		ug/L		103	66 - 131	6	28
4-Methyl-2-pentanone (MIBK)	300	305		ug/L		102	67 - 134	4	20
m-Xylene & p-Xylene	60.0	59.6		ug/L		99	86 - 123	3	20
o-Xylene	30.0	31.5		ug/L		105	85 - 123	0	20
Propionitrile	300	298		ug/L		99	68 - 126	3	24
Styrene	30.0	31.6		ug/L		105	86 - 121	2	20
1,1,1,2-Tetrachloroethane	30.0	31.7		ug/L		106	80 - 118	1	20
1,1,2,2-Tetrachloroethane	30.0	28.2		ug/L		94	78 - 118	3	20
Tetrachloroethene	30.0	30.2		ug/L		101	81 - 126	3	20
Toluene	30.0	29.6		ug/L		99	82 - 122	1	20
trans-1,4-Dichloro-2-butene	60.0	55.9		ug/L		93	76 - 128	7	26
trans-1,2-Dichloroethene	30.0	31.5		ug/L		105	77 - 128	2	22
trans-1,3-Dichloropropene	30.0	31.7		ug/L		106	76 - 122	1	20
1,1,1-Trichloroethane	30.0	30.4		ug/L		101	85 - 122	1	20
1,1,2-Trichloroethane	30.0	29.5		ug/L		98	76 - 122	1	20
Trichloroethene	30.0	28.8		ug/L		96	82 - 121	3	20
Trichlorofluoromethane	30.0	28.0		ug/L		93	84 - 139	0	20
1,2,3-Trichloropropane	30.0	30.1		ug/L		100	79 - 128	0	20
Vinyl acetate	60.0	61.4		ug/L		102	39 - 185	0	27
Vinyl chloride	30.0	27.3		ug/L		91	70 - 139	2	20
Xylenes, Total	90.0	91.1		ug/L		101	86 - 123	2	20

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

Lab Sample ID: LCSD 640-94641/4
Matrix: Water
Analysis Batch: 94641

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*100*		*81 - 113*
Toluene-d8 (Surr)	*100*		*87 - 112*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 640-94588/1-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94588

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.70	U	10	0.70	ug/L		07/30/12 14:14	08/03/12 16:50	1
Acenaphthylene	0.85	U	10	0.85	ug/L		07/30/12 14:14	08/03/12 16:50	1
Acetophenone	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Acetylaminofluorene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Aminobiphenyl	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 16:50	1
Anthracene	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzo[a]anthracene	0.85	U	10	0.85	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzo[b]fluoranthene	0.98	U	10	0.98	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzo[k]fluoranthene	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzo[g,h,i]perylene	1.4	U	10	1.4	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
Benzyl alcohol	0.78	U	10	0.78	ug/L		07/30/12 14:14	08/03/12 16:50	1
Bis(2-chloroethoxy)methane	0.72	U	10	0.72	ug/L		07/30/12 14:14	08/03/12 16:50	1
Bis(2-chloroethyl)ether	0.59	U	10	0.59	ug/L		07/30/12 14:14	08/03/12 16:50	1
Bis(2-ethylhexyl) phthalate	0.979	I	10	0.65	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Bromophenyl phenyl ether	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 16:50	1
Butyl benzyl phthalate	0.89	U	10	0.89	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Chloroaniline	0.68	U	20	0.68	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Chloro-3-methylphenol	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Chloronaphthalene	0.60	U	10	0.60	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Chlorophenol	0.52	U	10	0.52	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Chlorophenyl phenyl ether	0.88	U	10	0.88	ug/L		07/30/12 14:14	08/03/12 16:50	1
Chrysene	0.95	U	10	0.95	ug/L		07/30/12 14:14	08/03/12 16:50	1
Diallate	0.46	U	10	0.46	ug/L		07/30/12 14:14	08/03/12 16:50	1
Dibenz(a,h)anthracene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
Dibenzofuran	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 16:50	1
Di-n-butyl phthalate	1.7	U	10	1.7	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,2-Dichlorobenzene	0.44	U	10	0.44	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,3-Dichlorobenzene	0.42	U	10	0.42	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,4-Dichlorobenzene	0.39	U	10	0.39	ug/L		07/30/12 14:14	08/03/12 16:50	1
3,3'-Dichlorobenzidine	0.75	U	20	0.75	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4-Dichlorophenol	0.72	U	10	0.72	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,6-Dichlorophenol	0.86	U	10	0.86	ug/L		07/30/12 14:14	08/03/12 16:50	1
Diethyl phthalate	1.4	U	10	1.4	ug/L		07/30/12 14:14	08/03/12 16:50	1
p-Dimethylamino azobenzene	0.39	U	10	0.39	ug/L		07/30/12 14:14	08/03/12 16:50	1
7,12-Dimethylbenz(a)anthracene	0.34	U	10	0.34	ug/L		07/30/12 14:14	08/03/12 16:50	1
3,3'-Dimethylbenzidine	3.0	U	20	3.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4-Dimethylphenol	0.75	U	10	0.75	ug/L		07/30/12 14:14	08/03/12 16:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 640-94588/1-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94588

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,3-Dinitrobenzene	1.7	U	50	1.7	ug/L		07/30/12 14:14	08/03/12 16:50	1
4,6-Dinitro-2-methylphenol	0.96	U	50	0.96	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4-Dinitrophenol	3.9	U	50	3.9	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,6-Dinitrotoluene	0.88	U	10	0.88	ug/L		07/30/12 14:14	08/03/12 16:50	1
Dinoseb	0.98	U	10	0.98	ug/L		07/30/12 14:14	08/03/12 16:50	1
Di-n-octyl phthalate	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 16:50	1
Ethyl methanesulfonate	0.92	U	10	0.92	ug/L		07/30/12 14:14	08/03/12 16:50	1
Fluoranthene	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 16:50	1
Fluorene	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
Hexachlorobenzene	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
Hexachlorobutadiene	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 16:50	1
Hexachlorocyclopentadiene	0.21	U	10	0.21	ug/L		07/30/12 14:14	08/03/12 16:50	1
Hexachloroethane	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 16:50	1
Hexachloropropene	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 16:50	1
Indeno[1,2,3-cd]pyrene	1.3	U	10	1.3	ug/L		07/30/12 14:14	08/03/12 16:50	1
Isophorone	0.81	U	10	0.81	ug/L		07/30/12 14:14	08/03/12 16:50	1
Isosafrole	0.90	U	10	0.90	ug/L		07/30/12 14:14	08/03/12 16:50	1
Kepone	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 16:50	1
Methapyrilene	1.0	U	2000	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
3-Methylcholanthrene	0.61	U	10	0.61	ug/L		07/30/12 14:14	08/03/12 16:50	1
Methyl methanesulfonate	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Methylnaphthalene	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Methylphenol	0.78	U	10	0.78	ug/L		07/30/12 14:14	08/03/12 16:50	1
3 & 4 Methylphenol	0.76	U	10	0.76	ug/L		07/30/12 14:14	08/03/12 16:50	1
Naphthalene	0.57	U	10	0.57	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,4-Naphthoquinone	0.34	U	10	0.34	ug/L		07/30/12 14:14	08/03/12 16:50	1
1-Naphthylamine	0.62	U	10	0.62	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Naphthylamine	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Nitroaniline	0.84	U	50	0.84	ug/L		07/30/12 14:14	08/03/12 16:50	1
3-Nitroaniline	1.4	U	50	1.4	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Nitroaniline	1.2	U	50	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
Nitrobenzene	0.63	U	10	0.63	ug/L		07/30/12 14:14	08/03/12 16:50	1
2-Nitrophenol	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 16:50	1
4-Nitrophenol	1.3	U	50	1.3	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitro-o-toluidine	0.74	U	10	0.74	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosodiethylamine	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosodimethylamine	3.1	U	10	3.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosodi-n-butylamine	0.66	U	10	0.66	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosodi-n-propylamine	0.82	U	10	0.82	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosodiphenylamine	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosomethylethylamine	1.2	U	10	1.2	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosopiperidine	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
N-Nitrosopyrrolidine	0.70	U	10	0.70	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,2'-oxybis[1-chloropropane]	0.71	U	10	0.71	ug/L		07/30/12 14:14	08/03/12 16:50	1
Pentachlorobenzene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
Pentachloronitrobenzene	0.54	U	10	0.54	ug/L		07/30/12 14:14	08/03/12 16:50	1
Pentachlorophenol	1.1	U	50	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
Phenacetin	0.53	U	10	0.53	ug/L		07/30/12 14:14	08/03/12 16:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 640-94588/1-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94588

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	1.5	U	10	1.5	ug/L		07/30/12 14:14	08/03/12 16:50	1
Phenol	0.69	U	10	0.69	ug/L		07/30/12 14:14	08/03/12 16:50	1
p-Phenylene diamine	500	U	2000	500	ug/L		07/30/12 14:14	08/03/12 16:50	1
Pronamide	0.35	U	10	0.35	ug/L		07/30/12 14:14	08/03/12 16:50	1
Pyrene	1.0	U	10	1.0	ug/L		07/30/12 14:14	08/03/12 16:50	1
Safrole, Total	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,2,4,5-Tetrachlorobenzene	0.90	U	10	0.90	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,3,4,6-Tetrachlorophenol	3.8	U	10	3.8	ug/L		07/30/12 14:14	08/03/12 16:50	1
o-Toluidine	0.64	U	10	0.64	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,2,4-Trichlorobenzene	0.51	U	10	0.51	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4,5-Trichlorophenol	1.1	U	10	1.1	ug/L		07/30/12 14:14	08/03/12 16:50	1
2,4,6-Trichlorophenol	0.93	U	10	0.93	ug/L		07/30/12 14:14	08/03/12 16:50	1
o,o',o''-Triethylphosphorothioate	0.80	U	10	0.80	ug/L		07/30/12 14:14	08/03/12 16:50	1
1,3,5-Trinitrobenzene	0.58	U	10	0.58	ug/L		07/30/12 14:14	08/03/12 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*107*		*39 - 123*	*07/30/12 14:14*	*08/03/12 16:50*	*1*
2-Fluorobiphenyl	*109*		*31 - 113*	*07/30/12 14:14*	*08/03/12 16:50*	*1*
Terphenyl-d14	*128*		*10 - 138*	*07/30/12 14:14*	*08/03/12 16:50*	*1*
Phenol-d5	*55*		*23 - 123*	*07/30/12 14:14*	*08/03/12 16:50*	*1*
2-Fluorophenol	*38*		*27 - 111*	*07/30/12 14:14*	*08/03/12 16:50*	*1*
2,4,6-Tribromophenol	*72*		*42 - 128*	*07/30/12 14:14*	*08/03/12 16:50*	*1*

Lab Sample ID: LCS 640-94588/2-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	46.5		ug/L		93	50 - 108
Acenaphthylene	50.0	46.0		ug/L		92	48 - 110
Anthracene	50.0	48.0		ug/L		96	66 - 106
Benzo[a]anthracene	50.0	49.8		ug/L		100	61 - 110
Benzo[b]fluoranthene	50.0	52.2		ug/L		104	64 - 114
Benzo[k]fluoranthene	50.0	54.9		ug/L		110	64 - 115
Benzo[g,h,i]perylene	50.0	56.2		ug/L		112	52 - 117
Benzo[a]pyrene	50.0	53.6		ug/L		107	62 - 108
Benzyl alcohol	50.0	43.9		ug/L		88	46 - 114
Bis(2-chloroethoxy)methane	50.0	45.7		ug/L		91	56 - 116
Bis(2-chloroethyl)ether	50.0	43.1		ug/L		86	45 - 110
Bis(2-ethylhexyl) phthalate	50.0	52.9		ug/L		106	59 - 124
4-Bromophenyl phenyl ether	50.0	47.7		ug/L		95	54 - 100
Butyl benzyl phthalate	50.0	50.2		ug/L		100	54 - 134
4-Chloroaniline	50.0	40.7		ug/L		81	10 - 100
4-Chloro-3-methylphenol	50.0	42.7		ug/L		85	50 - 115
2-Chloronaphthalene	50.0	42.4		ug/L		85	41 - 108
2-Chlorophenol	50.0	30.1		ug/L		60	47 - 109
4-Chlorophenyl phenyl ether	50.0	46.4		ug/L		93	52 - 105
Chrysene	50.0	48.5		ug/L		97	64 - 119
Dibenz(a,h)anthracene	50.0	56.6		ug/L		113	54 - 116

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 640-94588/2-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	50.0	44.7		ug/L		89	54 - 108
Di-n-butyl phthalate	50.0	52.6		ug/L		105	71 - 108
1,2-Dichlorobenzene	50.0	29.0		ug/L		58	20 - 100
1,3-Dichlorobenzene	50.0	26.2		ug/L		52	16 - 100
1,4-Dichlorobenzene	50.0	27.0		ug/L		54	17 - 100
2,4-Dichlorophenol	50.0	34.5		ug/L		69	50 - 120
Diethyl phthalate	50.0	50.3		ug/L		101	58 - 115
2,4-Dimethylphenol	50.0	22.9		ug/L		46	22 - 100
Dimethyl phthalate	50.0	48.2		ug/L		96	62 - 110
1,3-Dinitrobenzene	50.0	53.7		ug/L		107	45 - 135
4,6-Dinitro-2-methylphenol	50.0	48.9	I	ug/L		98	28 - 133
2,4-Dinitrophenol	50.0	43.3	I	ug/L		87	10 - 162
2,4-Dinitrotoluene	50.0	52.0		ug/L		104	64 - 118
2,6-Dinitrotoluene	50.0	54.0		ug/L		108	62 - 113
Di-n-octyl phthalate	50.0	55.9		ug/L		112	57 - 128
Fluoranthene	50.0	51.1		ug/L		102	70 - 113
Fluorene	50.0	47.9		ug/L		96	56 - 110
Hexachlorobenzene	50.0	45.7		ug/L		91	60 - 106
Hexachlorobutadiene	50.0	25.7		ug/L		51	14 - 100
Hexachlorocyclopentadiene	50.0	3.93	I J	ug/L		8	10 - 100
Hexachloroethane	50.0	24.3		ug/L		49	12 - 100
Indeno[1,2,3-cd]pyrene	50.0	57.2		ug/L		114	43 - 122
Isophorone	50.0	48.7		ug/L		97	56 - 113
2-Methylnaphthalene	50.0	41.3		ug/L		83	37 - 104
2-Methylphenol	50.0	35.2		ug/L		70	46 - 111
3 & 4 Methylphenol	100	75.5		ug/L		76	30 - 135
Naphthalene	50.0	38.6		ug/L		77	31 - 104
2-Nitroaniline	50.0	51.5		ug/L		103	59 - 117
3-Nitroaniline	50.0	48.5	I	ug/L		97	43 - 118
4-Nitroaniline	50.0	47.1	I	ug/L		94	48 - 112
Nitrobenzene	50.0	45.7		ug/L		91	52 - 119
2-Nitrophenol	50.0	36.0		ug/L		72	50 - 111
4-Nitrophenol	50.0	50.7		ug/L		101	44 - 126
N-Nitrosodimethylamine	50.0	39.9		ug/L		80	43 - 104
N-Nitrosodi-n-propylamine	50.0	45.7		ug/L		91	52 - 115
N-Nitrosodiphenylamine	50.0	48.1		ug/L		96	59 - 101
2,2'-oxybis[1-chloropropane]	50.0	43.1		ug/L		86	46 - 120
Pentachlorophenol	50.0	35.9	I	ug/L		72	26 - 123
Phenanthrene	50.0	48.5		ug/L		97	65 - 107
Phenol	50.0	33.5		ug/L		67	47 - 104
Pyrene	50.0	45.7		ug/L		91	49 - 132
2,3,4,6-Tetrachlorophenol	50.0	40.6		ug/L		81	45 - 135
1,2,4-Trichlorobenzene	50.0	31.8		ug/L		64	22 - 100
2,4,5-Trichlorophenol	50.0	39.5		ug/L		79	49 - 114
2,4,6-Trichlorophenol	50.0	35.9		ug/L		72	50 - 113

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*117*		*39 - 123*
2-Fluorobiphenyl	*116*	*J*	*31 - 113*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 640-94588/2-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94588

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*122*		*10 - 138*
Phenol-d5	*63*		*23 - 123*
2-Fluorophenol	*44*		*27 - 111*
2,4,6-Tribromophenol	*82*		*42 - 128*

Lab Sample ID: LCSD 640-94588/3-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94588

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			50.0	46.3		ug/L		93	50 - 108	0	40
Acenaphthylene			50.0	47.3		ug/L		95	48 - 110	3	40
Anthracene			50.0	48.5		ug/L		97	66 - 106	1	40
Benzo[a]anthracene			50.0	50.3		ug/L		101	61 - 110	1	40
Benzo[b]fluoranthene			50.0	53.8		ug/L		108	64 - 114	3	40
Benzo[k]fluoranthene			50.0	54.1		ug/L		108	64 - 115	1	40
Benzo[g,h,i]perylene			50.0	55.9		ug/L		112	52 - 117	0	40
Benzo[a]pyrene			50.0	53.7		ug/L		107	62 - 108	0	40
Benzyl alcohol			50.0	43.8		ug/L		88	46 - 114	0	40
Bis(2-chloroethoxy)methane			50.0	47.8		ug/L		96	56 - 116	4	40
Bis(2-chloroethyl)ether			50.0	45.7		ug/L		91	45 - 110	6	40
Bis(2-ethylhexyl) phthalate			50.0	54.9		ug/L		110	59 - 124	4	40
4-Bromophenyl phenyl ether			50.0	47.2		ug/L		94	54 - 100	1	40
Butyl benzyl phthalate			50.0	52.5		ug/L		105	54 - 134	5	40
4-Chloroaniline			50.0	30.7		ug/L		61	10 - 100	28	100
4-Chloro-3-methylphenol			50.0	48.1		ug/L		96	50 - 115	12	40
2-Chloronaphthalene			50.0	43.1		ug/L		86	41 - 108	2	40
2-Chlorophenol			50.0	40.3		ug/L		81	47 - 109	29	40
4-Chlorophenyl phenyl ether			50.0	48.0		ug/L		96	52 - 105	4	40
Chrysene			50.0	50.4		ug/L		101	64 - 119	4	40
Dibenz(a,h)anthracene			50.0	56.6		ug/L		113	54 - 116	0	40
Dibenzofuran			50.0	47.1		ug/L		94	54 - 108	5	40
Di-n-butyl phthalate			50.0	53.6		ug/L		107	71 - 108	2	40
1,2-Dichlorobenzene			50.0	29.8		ug/L		60	20 - 100	3	40
1,3-Dichlorobenzene			50.0	26.4		ug/L		53	16 - 100	1	40
1,4-Dichlorobenzene			50.0	26.9		ug/L		54	17 - 100	0	40
2,4-Dichlorophenol			50.0	45.3		ug/L		91	50 - 120	27	40
Diethyl phthalate			50.0	51.6		ug/L		103	58 - 115	3	40
2,4-Dimethylphenol			50.0	24.3		ug/L		49	22 - 100	6	40
Dimethyl phthalate			50.0	50.5		ug/L		101	62 - 110	5	40
1,3-Dinitrobenzene			50.0	51.5		ug/L		103	45 - 135	4	40
4,6-Dinitro-2-methylphenol			50.0	51.9		ug/L		104	28 - 133	6	40
2,4-Dinitrophenol			50.0	50.6		ug/L		101	10 - 162	16	40
2,4-Dinitrotoluene			50.0	53.7		ug/L		107	64 - 118	3	40
2,6-Dinitrotoluene			50.0	54.8		ug/L		110	62 - 113	1	40
Di-n-octyl phthalate			50.0	57.7		ug/L		115	57 - 128	3	40
Fluoranthene			50.0	51.7		ug/L		103	70 - 113	1	40
Fluorene			50.0	49.2		ug/L		98	56 - 110	3	40
Hexachlorobenzene			50.0	46.9		ug/L		94	60 - 106	2	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 640-94588/3-A
Matrix: Water
Analysis Batch: 94758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94588

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			50.0	26.3		ug/L		53	14 - 100	2	40
Hexachlorocyclopentadiene			50.0	3.58	I J	ug/L		7	10 - 100	9	100
Hexachloroethane			50.0	24.8		ug/L		50	12 - 100	2	40
Indeno[1,2,3-cd]pyrene			50.0	53.6		ug/L		107	43 - 122	6	40
Isophorone			50.0	49.0		ug/L		98	56 - 113	1	40
2-Methylnaphthalene			50.0	40.9		ug/L		82	37 - 104	1	40
2-Methylphenol			50.0	41.8		ug/L		84	46 - 111	17	40
3 & 4 Methylphenol			100	89.4		ug/L		89	30 - 135	17	40
Naphthalene			50.0	38.1		ug/L		76	31 - 104	1	40
2-Nitroaniline			50.0	53.2		ug/L		106	59 - 117	3	40
3-Nitroaniline			50.0	44.1	I	ug/L		88	43 - 118	10	40
4-Nitroaniline			50.0	50.3		ug/L		101	48 - 112	7	40
Nitrobenzene			50.0	45.9		ug/L		92	52 - 119	1	40
2-Nitrophenol			50.0	47.9		ug/L		96	50 - 111	28	40
4-Nitrophenol			50.0	53.8		ug/L		108	44 - 126	6	40
N-Nitrosodimethylamine			50.0	43.2		ug/L		86	43 - 104	8	40
N-Nitrosodi-n-propylamine			50.0	46.8		ug/L		94	52 - 115	2	40
N-Nitrosodiphenylamine			50.0	49.5		ug/L		99	59 - 101	3	40
2,2'-oxybis[1-chloropropane]			50.0	45.4		ug/L		91	46 - 120	5	40
Pentachlorophenol			50.0	41.3	I	ug/L		83	26 - 123	14	40
Phenanthrene			50.0	49.2		ug/L		98	65 - 107	1	40
Phenol			50.0	42.9		ug/L		86	47 - 104	25	40
Pyrene			50.0	47.8		ug/L		96	49 - 132	5	40
2,3,4,6-Tetrachlorophenol			50.0	47.7		ug/L		95	45 - 135	16	40
1,2,4-Trichlorobenzene			50.0	31.3		ug/L		63	22 - 100	1	40
2,4,5-Trichlorophenol			50.0	47.2		ug/L		94	49 - 114	18	40
2,4,6-Trichlorophenol			50.0	46.0		ug/L		92	50 - 113	25	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*118*		*39 - 123*
2-Fluorobiphenyl	*118*	*J*	*31 - 113*
Terphenyl-d14	*126*		*10 - 138*
Phenol-d5	*80*		*23 - 123*
2-Fluorophenol	*68*		*27 - 111*
2,4,6-Tribromophenol	*94*		*42 - 128*

Lab Sample ID: MB 640-94621/1-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94621

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.70	U	10	0.70	ug/L		07/31/12 12:06	08/13/12 21:03	1
Acenaphthylene	0.85	U	10	0.85	ug/L		07/31/12 12:06	08/13/12 21:03	1
Acetophenone	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Acetylaminofluorene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Aminobiphenyl	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 21:03	1
Anthracene	1.3	U	10	1.3	ug/L		07/31/12 12:06	08/13/12 21:03	1
Benzo[a]anthracene	0.85	U	10	0.85	ug/L		07/31/12 12:06	08/13/12 21:03	1
Benzo[b]fluoranthene	0.98	U	10	0.98	ug/L		07/31/12 12:06	08/13/12 21:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 640-94621/1-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94621

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
Benzo[g,h,i]perylene	1.4	U	10	1.4	ug/L		07/31/12 12:06	08/13/12 21:03	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
Benzyl alcohol	0.78	U	10	0.78	ug/L		07/31/12 12:06	08/13/12 21:03	1
Bis(2-chloroethoxy)methane	0.72	U	10	0.72	ug/L		07/31/12 12:06	08/13/12 21:03	1
Bis(2-chloroethyl)ether	0.59	U	10	0.59	ug/L		07/31/12 12:06	08/13/12 21:03	1
Bis(2-ethylhexyl) phthalate	1.13	I	10	0.65	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Bromophenyl phenyl ether	1.3	U	10	1.3	ug/L		07/31/12 12:06	08/13/12 21:03	1
Butyl benzyl phthalate	0.89	U	10	0.89	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Chloroaniline	0.68	U	20	0.68	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Chloro-3-methylphenol	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Chloronaphthalene	0.60	U	10	0.60	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Chlorophenol	0.52	U	10	0.52	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Chlorophenyl phenyl ether	0.88	U	10	0.88	ug/L		07/31/12 12:06	08/13/12 21:03	1
Chrysene	0.95	U	10	0.95	ug/L		07/31/12 12:06	08/13/12 21:03	1
Diallate	0.46	U	10	0.46	ug/L		07/31/12 12:06	08/13/12 21:03	1
Dibenz(a,h)anthracene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
Dibenzofuran	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 21:03	1
Di-n-butyl phthalate	1.7	U	10	1.7	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,2-Dichlorobenzene	0.44	U	10	0.44	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,3-Dichlorobenzene	0.42	U	10	0.42	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,4-Dichlorobenzene	0.39	U	10	0.39	ug/L		07/31/12 12:06	08/13/12 21:03	1
3,3'-Dichlorobenzidine	0.75	U	20	0.75	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4-Dichlorophenol	0.72	U	10	0.72	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,6-Dichlorophenol	0.86	U	10	0.86	ug/L		07/31/12 12:06	08/13/12 21:03	1
Diethyl phthalate	1.4	U	10	1.4	ug/L		07/31/12 12:06	08/13/12 21:03	1
p-Dimethylamino azobenzene	0.39	U	10	0.39	ug/L		07/31/12 12:06	08/13/12 21:03	1
7,12-Dimethylbenz(a)anthracene	0.34	U	10	0.34	ug/L		07/31/12 12:06	08/13/12 21:03	1
3,3'-Dimethylbenzidine	3.0	U	20	3.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4-Dimethylphenol	0.75	U	10	0.75	ug/L		07/31/12 12:06	08/13/12 21:03	1
Dimethyl phthalate	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,3-Dinitrobenzene	1.7	U	50	1.7	ug/L		07/31/12 12:06	08/13/12 21:03	1
4,6-Dinitro-2-methylphenol	0.96	U	50	0.96	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4-Dinitrophenol	3.9	U	50	3.9	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,6-Dinitrotoluene	0.88	U	10	0.88	ug/L		07/31/12 12:06	08/13/12 21:03	1
Dinoseb	0.98	U	10	0.98	ug/L		07/31/12 12:06	08/13/12 21:03	1
Di-n-octyl phthalate	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 21:03	1
Ethyl methanesulfonate	0.92	U	10	0.92	ug/L		07/31/12 12:06	08/13/12 21:03	1
Fluoranthene	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 21:03	1
Fluorene	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
Hexachlorobenzene	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
Hexachlorobutadiene	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 21:03	1
Hexachlorocyclopentadiene	0.21	U	10	0.21	ug/L		07/31/12 12:06	08/13/12 21:03	1
Hexachloroethane	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 21:03	1
Hexachloropropene	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 21:03	1
Indeno[1,2,3-cd]pyrene	1.3	U	10	1.3	ug/L		07/31/12 12:06	08/13/12 21:03	1
Isophorone	0.81	U	10	0.81	ug/L		07/31/12 12:06	08/13/12 21:03	1
Isosafrole	0.90	U	10	0.90	ug/L		07/31/12 12:06	08/13/12 21:03	1
Kepone	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 21:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 640-94621/1-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94621

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methapyrilene	1.0	U	2000	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
3-Methylcholanthrene	0.61	U	10	0.61	ug/L		07/31/12 12:06	08/13/12 21:03	1
Methyl methanesulfonate	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Methylnaphthalene	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Methylphenol	0.78	U	10	0.78	ug/L		07/31/12 12:06	08/13/12 21:03	1
3 & 4 Methylphenol	0.76	U	10	0.76	ug/L		07/31/12 12:06	08/13/12 21:03	1
Naphthalene	0.57	U	10	0.57	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,4-Naphthoquinone	0.34	U	10	0.34	ug/L		07/31/12 12:06	08/13/12 21:03	1
1-Naphthylamine	0.62	U	10	0.62	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Naphthylamine	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Nitroaniline	0.84	U	50	0.84	ug/L		07/31/12 12:06	08/13/12 21:03	1
3-Nitroaniline	1.4	U	50	1.4	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Nitroaniline	1.2	U	50	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
Nitrobenzene	0.63	U	10	0.63	ug/L		07/31/12 12:06	08/13/12 21:03	1
2-Nitrophenol	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 21:03	1
4-Nitrophenol	1.3	U	50	1.3	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitro-o-toluidine	0.74	U	10	0.74	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosodiethylamine	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosodimethylamine	3.1	U	10	3.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosodi-n-butylamine	0.66	U	10	0.66	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosodi-n-propylamine	0.82	U	10	0.82	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosodiphenylamine	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosomethylethylamine	1.2	U	10	1.2	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosopiperidine	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
N-Nitrosopyrrolidine	0.70	U	10	0.70	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,2'-oxybis[1-chloropropane]	0.71	U	10	0.71	ug/L		07/31/12 12:06	08/13/12 21:03	1
Pentachlorobenzene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
Pentachloronitrobenzene	0.54	U	10	0.54	ug/L		07/31/12 12:06	08/13/12 21:03	1
Pentachlorophenol	1.1	U	50	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
Phenacetin	0.53	U	10	0.53	ug/L		07/31/12 12:06	08/13/12 21:03	1
Phenanthrene	1.5	U	10	1.5	ug/L		07/31/12 12:06	08/13/12 21:03	1
Phenol	0.69	U	10	0.69	ug/L		07/31/12 12:06	08/13/12 21:03	1
p-Phenylene diamine	500	U	2000	500	ug/L		07/31/12 12:06	08/13/12 21:03	1
Pronamide	0.35	U	10	0.35	ug/L		07/31/12 12:06	08/13/12 21:03	1
Pyrene	1.0	U	10	1.0	ug/L		07/31/12 12:06	08/13/12 21:03	1
Safrole, Total	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,2,4,5-Tetrachlorobenzene	0.90	U	10	0.90	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,3,4,6-Tetrachlorophenol	3.8	U	10	3.8	ug/L		07/31/12 12:06	08/13/12 21:03	1
o-Toluidine	0.64	U	10	0.64	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,2,4-Trichlorobenzene	0.51	U	10	0.51	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4,5-Trichlorophenol	1.1	U	10	1.1	ug/L		07/31/12 12:06	08/13/12 21:03	1
2,4,6-Trichlorophenol	0.93	U	10	0.93	ug/L		07/31/12 12:06	08/13/12 21:03	1
o,o',o''-Triethylphosphorothioate	0.80	U	10	0.80	ug/L		07/31/12 12:06	08/13/12 21:03	1
1,3,5-Trinitrobenzene	0.58	U	10	0.58	ug/L		07/31/12 12:06	08/13/12 21:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*39 - 123*	*07/31/12 12:06*	*08/13/12 21:03*	*1*
2-Fluorobiphenyl	*102*		*31 - 113*	*07/31/12 12:06*	*08/13/12 21:03*	*1*
Terphenyl-d14	*103*		*10 - 138*	*07/31/12 12:06*	*08/13/12 21:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 640-94621/1-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94621

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	72		23 - 123	07/31/12 12:06	08/13/12 21:03	1
2-Fluorophenol	76		27 - 111	07/31/12 12:06	08/13/12 21:03	1
2,4,6-Tribromophenol	87		42 - 128	07/31/12 12:06	08/13/12 21:03	1

Lab Sample ID: LCS 640-94621/2-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	47.3		ug/L		95	50 - 108
Acenaphthylene	50.0	49.0		ug/L		98	48 - 110
Anthracene	50.0	48.2		ug/L		96	66 - 106
Benzo[a]anthracene	50.0	49.1		ug/L		98	61 - 110
Benzo[b]fluoranthene	50.0	48.2		ug/L		96	64 - 114
Benzo[k]fluoranthene	50.0	49.6		ug/L		99	64 - 115
Benzo[g,h,i]perylene	50.0	50.2		ug/L		100	52 - 117
Benzo[a]pyrene	50.0	47.0		ug/L		94	62 - 108
Benzyl alcohol	50.0	43.4		ug/L		87	46 - 114
Bis(2-chloroethoxy)methane	50.0	47.9		ug/L		96	56 - 116
Bis(2-chloroethyl)ether	50.0	46.4		ug/L		93	45 - 110
Bis(2-ethylhexyl) phthalate	50.0	54.4		ug/L		109	59 - 124
4-Bromophenyl phenyl ether	50.0	52.2	J	ug/L		104	54 - 100
Butyl benzyl phthalate	50.0	54.6		ug/L		109	54 - 134
4-Chloroaniline	50.0	30.2		ug/L		60	10 - 100
4-Chloro-3-methylphenol	50.0	44.8		ug/L		90	50 - 115
2-Chloronaphthalene	50.0	45.6		ug/L		91	41 - 108
2-Chlorophenol	50.0	44.5		ug/L		89	47 - 109
4-Chlorophenyl phenyl ether	50.0	48.8		ug/L		98	52 - 105
Chrysene	50.0	50.1		ug/L		100	64 - 119
Dibenz(a,h)anthracene	50.0	49.8		ug/L		100	54 - 116
Dibenzofuran	50.0	45.6		ug/L		91	54 - 108
Di-n-butyl phthalate	50.0	54.3	J	ug/L		109	71 - 108
1,2-Dichlorobenzene	50.0	27.9		ug/L		56	20 - 100
1,3-Dichlorobenzene	50.0	25.0		ug/L		50	16 - 100
1,4-Dichlorobenzene	50.0	25.4		ug/L		51	17 - 100
2,4-Dichlorophenol	50.0	45.3		ug/L		91	50 - 120
Diethyl phthalate	50.0	49.7		ug/L		99	58 - 115
2,4-Dimethylphenol	50.0	28.5		ug/L		57	22 - 100
Dimethyl phthalate	50.0	48.6		ug/L		97	62 - 110
1,3-Dinitrobenzene	50.0	48.2	I	ug/L		96	45 - 135
4,6-Dinitro-2-methylphenol	50.0	47.4	I	ug/L		95	28 - 133
2,4-Dinitrophenol	50.0	44.6	I	ug/L		89	10 - 162
2,4-Dinitrotoluene	50.0	46.4		ug/L		93	64 - 118
2,6-Dinitrotoluene	50.0	47.4		ug/L		95	62 - 113
Di-n-octyl phthalate	50.0	58.7		ug/L		117	57 - 128
Fluoranthene	50.0	49.6		ug/L		99	70 - 113
Fluorene	50.0	48.5		ug/L		97	56 - 110
Hexachlorobenzene	50.0	50.1		ug/L		100	60 - 106
Hexachlorobutadiene	50.0	27.0		ug/L		54	14 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 640-94621/2-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	50.0	4.63	I J	ug/L		9	10 - 100
Hexachloroethane	50.0	21.9		ug/L		44	12 - 100
Indeno[1,2,3-cd]pyrene	50.0	51.3		ug/L		103	43 - 122
Isophorone	50.0	49.0		ug/L		98	56 - 113
2-Methylnaphthalene	50.0	40.4		ug/L		81	37 - 104
2-Methylphenol	50.0	42.4		ug/L		85	46 - 111
3 & 4 Methylphenol	100	83.5		ug/L		83	30 - 135
Naphthalene	50.0	37.3		ug/L		75	31 - 104
2-Nitroaniline	50.0	47.2	I	ug/L		94	59 - 117
3-Nitroaniline	50.0	36.1	I	ug/L		72	43 - 118
4-Nitroaniline	50.0	41.8	I	ug/L		84	48 - 112
Nitrobenzene	50.0	45.9		ug/L		92	52 - 119
2-Nitrophenol	50.0	46.3		ug/L		93	50 - 111
4-Nitrophenol	50.0	42.7	I	ug/L		85	44 - 126
N-Nitrosodimethylamine	50.0	41.9		ug/L		84	43 - 104
N-Nitrosodi-n-propylamine	50.0	43.0		ug/L		86	52 - 115
N-Nitrosodiphenylamine	50.0	49.4		ug/L		99	59 - 101
2,2'-oxybis[1-chloropropane]	50.0	43.1		ug/L		86	46 - 120
Pentachlorophenol	50.0	50.7		ug/L		101	26 - 123
Phenanthrene	50.0	49.2		ug/L		98	65 - 107
Phenol	50.0	43.6		ug/L		87	47 - 104
Pyrene	50.0	53.2		ug/L		106	49 - 132
2,3,4,6-Tetrachlorophenol	50.0	45.8		ug/L		92	45 - 135
1,2,4-Trichlorobenzene	50.0	32.8		ug/L		66	22 - 100
2,4,5-Trichlorophenol	50.0	48.3		ug/L		97	49 - 114
2,4,6-Trichlorophenol	50.0	47.7		ug/L		95	50 - 113

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*92*		*39 - 123*
2-Fluorobiphenyl	*101*		*31 - 113*
Terphenyl-d14	*105*		*10 - 138*
Phenol-d5	*80*		*23 - 123*
2-Fluorophenol	*82*		*27 - 111*
2,4,6-Tribromophenol	*89*		*42 - 128*

Lab Sample ID: LCSD 640-94621/3-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	47.5		ug/L		95	50 - 108	0	40
Acenaphthylene	50.0	46.5		ug/L		93	48 - 110	5	40
Anthracene	50.0	46.5		ug/L		93	66 - 106	4	40
Benzo[a]anthracene	50.0	49.3		ug/L		99	61 - 110	0	40
Benzo[b]fluoranthene	50.0	48.8		ug/L		98	64 - 114	1	40
Benzo[k]fluoranthene	50.0	49.5		ug/L		99	64 - 115	0	40
Benzo[g,h,i]perylene	50.0	50.8		ug/L		102	52 - 117	1	40
Benzo[a]pyrene	50.0	46.7		ug/L		93	62 - 108	0	40
Benzyl alcohol	50.0	43.3		ug/L		87	46 - 114	0	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 640-94621/3-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	50.0	48.0		ug/L		96	56 - 116	0	40
Bis(2-chloroethyl)ether	50.0	45.8		ug/L		92	45 - 110	1	40
Bis(2-ethylhexyl) phthalate	50.0	57.0		ug/L		114	59 - 124	5	40
4-Bromophenyl phenyl ether	50.0	51.0	J	ug/L		102	54 - 100	2	40
Butyl benzyl phthalate	50.0	54.6		ug/L		109	54 - 134	0	40
4-Chloroaniline	50.0	27.7		ug/L		55	10 - 100	9	100
4-Chloro-3-methylphenol	50.0	42.6		ug/L		85	50 - 115	5	40
2-Chloronaphthalene	50.0	45.0		ug/L		90	41 - 108	1	40
2-Chlorophenol	50.0	41.6		ug/L		83	47 - 109	7	40
4-Chlorophenyl phenyl ether	50.0	48.3		ug/L		97	52 - 105	1	40
Chrysene	50.0	49.8		ug/L		100	64 - 119	1	40
Dibenz(a,h)anthracene	50.0	50.3		ug/L		101	54 - 116	1	40
Dibenzofuran	50.0	45.6		ug/L		91	54 - 108	0	40
Di-n-butyl phthalate	50.0	51.4		ug/L		103	71 - 108	6	40
1,2-Dichlorobenzene	50.0	28.0		ug/L		56	20 - 100	0	40
1,3-Dichlorobenzene	50.0	24.6		ug/L		49	16 - 100	2	40
1,4-Dichlorobenzene	50.0	24.6		ug/L		49	17 - 100	3	40
2,4-Dichlorophenol	50.0	43.3		ug/L		87	50 - 120	5	40
Diethyl phthalate	50.0	49.8		ug/L		100	58 - 115	0	40
2,4-Dimethylphenol	50.0	21.3		ug/L		43	22 - 100	29	40
Dimethyl phthalate	50.0	48.1		ug/L		96	62 - 110	1	40
1,3-Dinitrobenzene	50.0	47.0	I	ug/L		94	45 - 135	3	40
4,6-Dinitro-2-methylphenol	50.0	44.9	I	ug/L		90	28 - 133	5	40
2,4-Dinitrophenol	50.0	41.1	I	ug/L		82	10 - 162	8	40
2,4-Dinitrotoluene	50.0	45.7		ug/L		91	64 - 118	1	40
2,6-Dinitrotoluene	50.0	49.1		ug/L		98	62 - 113	4	40
Di-n-octyl phthalate	50.0	57.0		ug/L		114	57 - 128	3	40
Fluoranthene	50.0	47.4		ug/L		95	70 - 113	4	40
Fluorene	50.0	48.2		ug/L		96	56 - 110	1	40
Hexachlorobenzene	50.0	50.1		ug/L		100	60 - 106	0	40
Hexachlorobutadiene	50.0	27.3		ug/L		55	14 - 100	1	40
Hexachlorocyclopentadiene	50.0	4.21	I J	ug/L		8	10 - 100	9	100
Hexachloroethane	50.0	22.1		ug/L		44	12 - 100	1	40
Indeno[1,2,3-cd]pyrene	50.0	50.7		ug/L		101	43 - 122	1	40
Isophorone	50.0	49.1		ug/L		98	56 - 113	0	40
2-Methylnaphthalene	50.0	40.8		ug/L		82	37 - 104	1	40
2-Methylphenol	50.0	38.5		ug/L		77	46 - 111	10	40
3 & 4 Methylphenol	100	77.5		ug/L		77	30 - 135	7	40
Naphthalene	50.0	37.1		ug/L		74	31 - 104	1	40
2-Nitroaniline	50.0	45.9	I	ug/L		92	59 - 117	3	40
3-Nitroaniline	50.0	32.5	I	ug/L		65	43 - 118	11	40
4-Nitroaniline	50.0	40.2	I	ug/L		80	48 - 112	4	40
Nitrobenzene	50.0	45.4		ug/L		91	52 - 119	1	40
2-Nitrophenol	50.0	43.1		ug/L		86	50 - 111	7	40
4-Nitrophenol	50.0	40.9	I	ug/L		82	44 - 126	4	40
N-Nitrosodimethylamine	50.0	41.9		ug/L		84	43 - 104	0	40
N-Nitrosodi-n-propylamine	50.0	42.1		ug/L		84	52 - 115	2	40
N-Nitrosodiphenylamine	50.0	49.8		ug/L		100	59 - 101	1	40
2,2'-oxybis[1-chloropropane]	50.0	41.4		ug/L		83	46 - 120	4	40
Pentachlorophenol	50.0	49.3	I	ug/L		99	26 - 123	3	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 640-94621/3-A
Matrix: Water
Analysis Batch: 95002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94621

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene			50.0	48.9		ug/L		98	65 - 107	1	40
Phenol			50.0	39.0		ug/L		78	47 - 104	11	40
Pyrene			50.0	54.2		ug/L		108	49 - 132	2	40
2,3,4,6-Tetrachlorophenol			50.0	42.5		ug/L		85	45 - 135	7	40
1,2,4-Trichlorobenzene			50.0	32.7		ug/L		65	22 - 100	0	40
2,4,5-Trichlorophenol			50.0	45.6		ug/L		91	49 - 114	6	40
2,4,6-Trichlorophenol			50.0	47.0		ug/L		94	50 - 113	2	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*92*		*39 - 123*
2-Fluorobiphenyl	*97*		*31 - 113*
Terphenyl-d14	*104*		*10 - 138*
Phenol-d5	*72*		*23 - 123*
2-Fluorophenol	*69*		*27 - 111*
2,4,6-Tribromophenol	*87*		*42 - 128*

Lab Sample ID: 640-39704-2 MS
Matrix: Water
Analysis Batch: 95002

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	0.70	U	50.0	44.6		ug/L		89	43 - 135		
Acenaphthylene	0.85	U	50.0	44.3		ug/L		89	45 - 135		
Anthracene	1.3	U	50.0	45.1		ug/L		90	45 - 135		
Benzo[a]anthracene	0.85	U	50.0	45.0		ug/L		90	45 - 135		
Benzo[b]fluoranthene	0.98	U	50.0	42.0		ug/L		84	45 - 135		
Benzo[k]fluoranthene	1.1	U	50.0	43.1		ug/L		86	45 - 135		
Benzo[g,h,i]perylene	1.4	U	50.0	42.2		ug/L		84	45 - 135		
Benzo[a]pyrene	1.0	U	50.0	41.6		ug/L		83	45 - 135		
Benzyl alcohol	0.78	U	50.0	44.7		ug/L		89	32 - 135		
Bis(2-chloroethoxy)methane	0.72	U	50.0	53.1		ug/L		106	45 - 135		
Bis(2-chloroethyl)ether	0.59	U	50.0	44.4		ug/L		89	45 - 135		
Bis(2-ethylhexyl) phthalate	1.6	I V	50.0	50.4		ug/L		97	41 - 135		
4-Bromophenyl phenyl ether	1.3	U J	50.0	48.5		ug/L		97	39 - 135		
Butyl benzyl phthalate	0.89	U	50.0	52.9		ug/L		106	45 - 135		
4-Chloroaniline	0.68	U	50.0	19.1	I	ug/L		38	10 - 135		
4-Chloro-3-methylphenol	1.2	U	50.0	79.9	J	ug/L		160	42 - 135		
2-Chloronaphthalene	0.60	U	50.0	41.2		ug/L		82	45 - 135		
2-Chlorophenol	0.52	U	50.0	40.5		ug/L		81	38 - 135		
4-Chlorophenyl phenyl ether	0.88	U	50.0	45.0		ug/L		90	45 - 135		
Chrysene	0.95	U	50.0	44.4		ug/L		89	45 - 135		
Dibenz(a,h)anthracene	1.2	U	50.0	43.2		ug/L		86	45 - 135		
Dibenzofuran	0.80	U	50.0	43.2		ug/L		86	45 - 135		
Di-n-butyl phthalate	1.7	U J	50.0	50.2		ug/L		100	45 - 135		
1,2-Dichlorobenzene	0.44	U	50.0	21.1		ug/L		42	34 - 135		
1,3-Dichlorobenzene	0.42	U	50.0	17.6		ug/L		35	28 - 135		
1,4-Dichlorobenzene	5.4	I	50.0	24.6		ug/L		39	27 - 135		
2,4-Dichlorophenol	0.72	U	50.0	45.0		ug/L		90	45 - 135		
Diethyl phthalate	1.4	U	50.0	44.6		ug/L		89	45 - 135		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-39704-2 MS
Matrix: Water
Analysis Batch: 95002

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	0.75	U	50.0	51.1		ug/L		102	28 - 135
Dimethyl phthalate	1.1	U	50.0	43.8		ug/L		88	45 - 135
1,3-Dinitrobenzene	1.7	U	50.0	44.3	I	ug/L		89	45 - 135
4,6-Dinitro-2-methylphenol	0.96	U	50.0	39.6	I	ug/L		79	33 - 135
2,4-Dinitrophenol	3.9	U	50.0	37.3	I	ug/L		75	13 - 135
2,4-Dinitrotoluene	1.2	U	50.0	44.9		ug/L		90	38 - 135
2,6-Dinitrotoluene	0.88	U	50.0	48.0		ug/L		96	45 - 135
Di-n-octyl phthalate	0.58	U	50.0	51.5		ug/L		103	45 - 135
Fluoranthene	1.5	U	50.0	45.0		ug/L		90	45 - 135
Fluorene	1.1	U	50.0	45.9		ug/L		92	45 - 135
Hexachlorobenzene	1.2	U	50.0	44.4		ug/L		89	45 - 135
Hexachlorobutadiene	0.62	U	50.0	19.3		ug/L		39	27 - 135
Hexachlorocyclopentadiene	0.21	U J	50.0	0.21	U	ug/L		0	0 - 135
Hexachloroethane	0.71	U	50.0	16.1		ug/L		32	26 - 135
Indeno[1,2,3-cd]pyrene	1.3	U	50.0	43.5		ug/L		87	45 - 135
Isophorone	0.81	U	50.0	46.6		ug/L		93	39 - 135
2-Methylnaphthalene	0.71	U	50.0	38.7		ug/L		77	43 - 135
2-Methylphenol	3.6	I	50.0	44.8		ug/L		82	34 - 135
3 & 4 Methylphenol	0.76	U	100	85.5		ug/L		86	30 - 135
Naphthalene	2.5	I	50.0	37.8		ug/L		71	41 - 135
2-Nitroaniline	0.84	U	50.0	49.6	I	ug/L		99	28 - 135
3-Nitroaniline	1.4	U	50.0	1.4	U J	ug/L		0	36 - 135
4-Nitroaniline	1.2	U	50.0	20.6	I	ug/L		41	23 - 135
Nitrobenzene	0.63	U	50.0	44.6		ug/L		89	45 - 135
2-Nitrophenol	0.58	U	50.0	42.4		ug/L		85	42 - 135
4-Nitrophenol	1.3	U	50.0	55.0		ug/L		110	38 - 135
N-Nitrosodimethylamine	3.1	U	50.0	38.8		ug/L		78	45 - 135
N-Nitrosodi-n-propylamine	0.82	U	50.0	45.9		ug/L		92	31 - 135
N-Nitrosodiphenylamine	1.1	U	50.0	53.2		ug/L		106	45 - 135
2,2'-oxybis[1-chloropropane]	0.71	U	50.0	41.6		ug/L		83	45 - 135
Pentachlorophenol	1.1	U	50.0	53.6		ug/L		107	24 - 135
Phenanthrene	1.5	U	50.0	47.6		ug/L		95	45 - 135
Phenol	0.69	U	50.0	41.2		ug/L		82	33 - 135
Pyrene	1.0	U	50.0	48.2		ug/L		96	45 - 135
2,3,4,6-Tetrachlorophenol	3.8	U	50.0	44.9		ug/L		90	45 - 135
1,2,4-Trichlorobenzene	0.51	U	50.0	27.3		ug/L		55	28 - 135
2,4,5-Trichlorophenol	1.1	U	50.0	46.1		ug/L		92	45 - 135
2,4,6-Trichlorophenol	0.93	U	50.0	46.0		ug/L		92	45 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*39 - 123*
2-Fluorobiphenyl	*86*		*31 - 113*
Terphenyl-d14	*38*		*10 - 138*
Phenol-d5	*71*		*23 - 123*
2-Fluorophenol	*71*		*27 - 111*
2,4,6-Tribromophenol	*85*		*42 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-39704-2 MSD
Matrix: Water
Analysis Batch: 95002

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94621

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.70	U	50.0	44.2		ug/L		88	43 - 135	1	40
Acenaphthylene	0.85	U	50.0	42.1		ug/L		84	45 - 135	5	40
Anthracene	1.3	U	50.0	41.2		ug/L		82	45 - 135	9	40
Benzo[a]anthracene	0.85	U	50.0	39.4		ug/L		79	45 - 135	13	40
Benzo[b]fluoranthene	0.98	U	50.0	38.1		ug/L		76	45 - 135	10	40
Benzo[k]fluoranthene	1.1	U	50.0	39.2		ug/L		78	45 - 135	9	40
Benzo[g,h,i]perylene	1.4	U	50.0	38.3		ug/L		77	45 - 135	10	40
Benzo[a]pyrene	1.0	U	50.0	37.8		ug/L		76	45 - 135	10	40
Benzyl alcohol	0.78	U	50.0	40.6		ug/L		81	32 - 135	10	40
Bis(2-chloroethoxy)methane	0.72	U	50.0	48.8		ug/L		98	45 - 135	9	40
Bis(2-chloroethyl)ether	0.59	U	50.0	41.5		ug/L		83	45 - 135	7	40
Bis(2-ethylhexyl) phthalate	1.6	I V	50.0	46.1		ug/L		89	41 - 135	9	40
4-Bromophenyl phenyl ether	1.3	U J	50.0	44.0		ug/L		88	39 - 135	10	40
Butyl benzyl phthalate	0.89	U	50.0	46.8		ug/L		94	45 - 135	12	40
4-Chloroaniline	0.68	U	50.0	17.2	I	ug/L		34	10 - 135	11	100
4-Chloro-3-methylphenol	1.2	U	50.0	75.2	J	ug/L		150	42 - 135	6	40
2-Chloronaphthalene	0.60	U	50.0	41.8		ug/L		84	45 - 135	2	40
2-Chlorophenol	0.52	U	50.0	37.4		ug/L		75	38 - 135	8	40
4-Chlorophenyl phenyl ether	0.88	U	50.0	43.0		ug/L		86	45 - 135	5	40
Chrysene	0.95	U	50.0	39.9		ug/L		80	45 - 135	11	40
Dibenz(a,h)anthracene	1.2	U	50.0	39.0		ug/L		78	45 - 135	10	40
Dibenzofuran	0.80	U	50.0	42.5		ug/L		85	45 - 135	2	40
Di-n-butyl phthalate	1.7	U J	50.0	45.9		ug/L		92	45 - 135	9	40
1,2-Dichlorobenzene	0.44	U	50.0	21.8		ug/L		44	34 - 135	3	40
1,3-Dichlorobenzene	0.42	U	50.0	18.2		ug/L		36	28 - 135	3	40
1,4-Dichlorobenzene	5.4	I	50.0	25.0		ug/L		39	27 - 135	1	40
2,4-Dichlorophenol	0.72	U	50.0	42.6		ug/L		85	45 - 135	6	40
Diethyl phthalate	1.4	U	50.0	44.8		ug/L		90	45 - 135	0	40
2,4-Dimethylphenol	0.75	U	50.0	46.3		ug/L		93	28 - 135	10	40
Dimethyl phthalate	1.1	U	50.0	42.7		ug/L		85	45 - 135	2	40
1,3-Dinitrobenzene	1.7	U	50.0	44.5	I	ug/L		89	45 - 135	1	40
4,6-Dinitro-2-methylphenol	0.96	U	50.0	31.8	I	ug/L		64	33 - 135	22	40
2,4-Dinitrophenol	3.9	U	50.0	30.3	I	ug/L		61	13 - 135	21	40
2,4-Dinitrotoluene	1.2	U	50.0	45.5		ug/L		91	38 - 135	1	40
2,6-Dinitrotoluene	0.88	U	50.0	45.5		ug/L		91	45 - 135	5	40
Di-n-octyl phthalate	0.58	U	50.0	47.0		ug/L		94	45 - 135	9	40
Fluoranthene	1.5	U	50.0	40.9		ug/L		82	45 - 135	10	40
Fluorene	1.1	U	50.0	44.6		ug/L		89	45 - 135	3	40
Hexachlorobenzene	1.2	U	50.0	38.3		ug/L		77	45 - 135	15	40
Hexachlorobutadiene	0.62	U	50.0	21.5		ug/L		43	27 - 135	11	40
Hexachlorocyclopentadiene	0.21	U J	50.0	0.21	U	ug/L		0	0 - 135	NC	100
Hexachloroethane	0.71	U	50.0	18.0		ug/L		36	26 - 135	11	40
Indeno[1,2,3-cd]pyrene	1.3	U	50.0	39.1		ug/L		78	45 - 135	11	40
Isophorone	0.81	U	50.0	44.2		ug/L		88	39 - 135	5	40
2-Methylnaphthalene	0.71	U	50.0	37.1		ug/L		74	43 - 135	4	40
2-Methylphenol	3.6	I	50.0	41.9		ug/L		77	34 - 135	7	40
3 & 4 Methylphenol	0.76	U	100	83.5		ug/L		84	30 - 135	2	40
Naphthalene	2.5	I	50.0	37.3		ug/L		69	41 - 135	2	40
2-Nitroaniline	0.84	U	50.0	50.8		ug/L		102	28 - 135	2	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-39704-2 MSD — **Client Sample ID: TANK-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95002 — **Prep Batch: 94621**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3-Nitroaniline	1.4	U	50.0	1.4	U J	ug/L		0	36 - 135	NC	40
4-Nitroaniline	1.2	U	50.0	20.3	I	ug/L		41	23 - 135	1	40
Nitrobenzene	0.63	U	50.0	42.1		ug/L		84	45 - 135	6	40
2-Nitrophenol	0.58	U	50.0	37.9		ug/L		76	42 - 135	11	40
4-Nitrophenol	1.3	U	50.0	51.5		ug/L		103	38 - 135	7	40
N-Nitrosodimethylamine	3.1	U	50.0	36.4		ug/L		73	45 - 135	6	40
N-Nitrosodi-n-propylamine	0.82	U	50.0	44.8		ug/L		90	31 - 135	2	40
N-Nitrosodiphenylamine	1.1	U	50.0	48.9		ug/L		98	45 - 135	8	40
2,2'-oxybis[1-chloropropane]	0.71	U	50.0	43.8		ug/L		88	45 - 135	5	40
Pentachlorophenol	1.1	U	50.0	48.1	I	ug/L		96	24 - 135	11	40
Phenanthrene	1.5	U	50.0	44.1		ug/L		88	45 - 135	7	40
Phenol	0.69	U	50.0	37.8		ug/L		76	33 - 135	9	40
Pyrene	1.0	U	50.0	43.2		ug/L		86	45 - 135	11	40
2,3,4,6-Tetrachlorophenol	3.8	U	50.0	43.7		ug/L		87	45 - 135	3	40
1,2,4-Trichlorobenzene	0.51	U	50.0	28.3		ug/L		57	28 - 135	4	40
2,4,5-Trichlorophenol	1.1	U	50.0	46.5		ug/L		93	45 - 135	1	40
2,4,6-Trichlorophenol	0.93	U	50.0	44.6		ug/L		89	45 - 135	3	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*39 - 123*
2-Fluorobiphenyl	*80*		*31 - 113*
Terphenyl-d14	*34*		*10 - 138*
Phenol-d5	*64*		*23 - 123*
2-Fluorophenol	*62*		*27 - 111*
2,4,6-Tribromophenol	*83*		*42 - 128*

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

Lab Sample ID: MB 640-94825/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94864 — **Prep Batch: 94825**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0061	U	0.020	0.0061	ug/L		08/06/12 12:22	08/07/12 15:46	1
Ethylene Dibromide	0.0065	U	0.020	0.0065	ug/L		08/06/12 12:22	08/07/12 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*96*		*56 - 144*	*08/06/12 12:22*	*08/07/12 15:46*	*1*

Lab Sample ID: LCS 640-94825/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94864 — **Prep Batch: 94825**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.250	0.233		ug/L		93	89 - 132
Ethylene Dibromide	0.250	0.240		ug/L		96	85 - 118

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

Lab Sample ID: LCS 640-94825/2-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94825

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1,2-Tetrachloroethane	*101*		*56 - 144*

Lab Sample ID: LCSD 640-94825/3-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94825

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.234		ug/L		94	89 - 132	1	11
Ethylene Dibromide			0.250	0.237		ug/L		95	85 - 118	1	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,1,2-Tetrachloroethane	*102*		*56 - 144*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.00088	U	0.10	0.00088	ug/L		07/30/12 14:02	08/01/12 14:57	1
4,4'-DDE	0.0010	U	0.10	0.0010	ug/L		07/30/12 14:02	08/01/12 14:57	1
alpha-BHC	0.0030	U	0.050	0.0030	ug/L		07/30/12 14:02	08/01/12 14:57	1
beta-BHC	0.0040	U	0.050	0.0040	ug/L		07/30/12 14:02	08/01/12 14:57	1
Chlordane (technical)	0.096	U	0.50	0.096	ug/L		07/30/12 14:02	08/01/12 14:57	1
delta-BHC	0.0029	U	0.050	0.0029	ug/L		07/30/12 14:02	08/01/12 14:57	1
Endosulfan I	0.00094	U	0.050	0.00094	ug/L		07/30/12 14:02	08/01/12 14:57	1
Endosulfan II	0.0018	U	0.10	0.0018	ug/L		07/30/12 14:02	08/01/12 14:57	1
Endosulfan sulfate	0.0028	U	0.10	0.0028	ug/L		07/30/12 14:02	08/01/12 14:57	1
Endrin aldehyde	0.00079	U	0.10	0.00079	ug/L		07/30/12 14:02	08/01/12 14:57	1
Chlorobenzilate	0.055	U	0.50	0.055	ug/L		07/30/12 14:02	08/01/12 14:57	1
Heptachlor epoxide	0.0013	U	0.050	0.0013	ug/L		07/30/12 14:02	08/01/12 14:57	1
Isodrin	0.0079	U	0.050	0.0079	ug/L		07/30/12 14:02	08/01/12 14:57	1
Methoxychlor	0.0021	U	0.50	0.0021	ug/L		07/30/12 14:02	08/01/12 14:57	1
Toxaphene	0.24	U	5.0	0.24	ug/L		07/30/12 14:02	08/01/12 14:57	1
4,4'-DDT	0.0035	U	0.10	0.0035	ug/L		07/30/12 14:02	08/01/12 14:57	1
Aldrin	0.0013	U	0.050	0.0013	ug/L		07/30/12 14:02	08/01/12 14:57	1
Dieldrin	0.00078	U	0.10	0.00078	ug/L		07/30/12 14:02	08/01/12 14:57	1
Endrin	0.00064	U	0.10	0.00064	ug/L		07/30/12 14:02	08/01/12 14:57	1
gamma-BHC (Lindane)	0.0011	U	0.050	0.0011	ug/L		07/30/12 14:02	08/01/12 14:57	1
Heptachlor	0.0015	U	0.050	0.0015	ug/L		07/30/12 14:02	08/01/12 14:57	1

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.17	U	1.0	0.17	ug/L		07/30/12 14:02	08/06/12 17:14	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.18	U	2.0	0.18	ug/L		07/30/12 14:02	08/06/12 17:14	1
PCB-1232	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 17:14	1
PCB-1242	0.094	U	1.0	0.094	ug/L		07/30/12 14:02	08/06/12 17:14	1
PCB-1248	0.12	U	1.0	0.12	ug/L		07/30/12 14:02	08/06/12 17:14	1
PCB-1254	0.10	U	1.0	0.10	ug/L		07/30/12 14:02	08/06/12 17:14	1
PCB-1260	0.087	U	1.0	0.087	ug/L		07/30/12 14:02	08/06/12 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*10 - 120*	*07/30/12 14:02*	*08/06/12 17:14*	*1*
Dibutylchlorendate	*67*		*10 - 130*	*07/30/12 14:02*	*08/06/12 17:14*	*1*
Tetrachloro-m-xylene	*41*		*10 - 110*	*07/30/12 14:02*	*08/06/12 17:14*	*1*

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	0.055	U	0.50	0.055	ug/L		07/30/12 14:02	08/08/12 13:24	1
Isodrin	0.0079	U	0.050	0.0079	ug/L		07/30/12 14:02	08/08/12 13:24	1

Lab Sample ID: LCS 640-94585/19-A
Matrix: Water
Analysis Batch: 94815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.50	1.49		ug/L		60	37 - 133		
PCB-1260			2.50	1.75		ug/L		70	51 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*		*10 - 120*
Dibutylchlorendate	*67*		*10 - 130*
Tetrachloro-m-xylene	*40*		*10 - 110*

Lab Sample ID: LCS 640-94585/2-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			0.100	0.0825	I	ug/L		83	50 - 130		
4,4'-DDE			0.100	0.0728	I	ug/L		73	50 - 130		
alpha-BHC			0.100	0.0745		ug/L		75	47 - 130		
beta-BHC			0.100	0.0944		ug/L		94	50 - 142		
delta-BHC			0.100	0.0789		ug/L		79	54 - 124		
Endosulfan I			0.100	0.0819		ug/L		82	44 - 130		
Endosulfan II			0.100	0.0838	I	ug/L		84	47 - 130		
Endosulfan sulfate			0.100	0.0989	I	ug/L		99	50 - 139		
Endrin aldehyde			0.100	0.0886	I	ug/L		89	49 - 143		
Heptachlor epoxide			0.100	0.0835		ug/L		84	50 - 130		

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 640-94585/2-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.100	0.0804	I	ug/L		80	48 - 144		
4,4'-DDT			0.100	0.0710	I	ug/L		71	36 - 140		
Aldrin			0.100	0.0683		ug/L		68	25 - 135		
Dieldrin			0.100	0.0873	I	ug/L		87	30 - 146		
Endrin			0.100	0.0820	I	ug/L		82	38 - 140		
gamma-BHC (Lindane)			0.100	0.0770		ug/L		77	36 - 135		
Heptachlor			0.100	0.0710		ug/L		71	26 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*10 - 120*
Dibutylchlorendate	*96*		*10 - 130*
Tetrachloro-m-xylene	*58*		*10 - 110*

Lab Sample ID: LCSD 640-94585/20-A
Matrix: Water
Analysis Batch: 94815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			2.50	1.56		ug/L		62	37 - 133	4	28
PCB-1260			2.50	1.92		ug/L		77	51 - 131	9	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*10 - 120*
Dibutylchlorendate	*67*		*10 - 130*
Tetrachloro-m-xylene	*43*		*10 - 110*

Lab Sample ID: LCSD 640-94585/3-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.100	0.0788	I	ug/L		79	50 - 130	5	30
4,4'-DDE			0.100	0.0708	I	ug/L		71	50 - 130	3	30
alpha-BHC			0.100	0.0712		ug/L		71	47 - 130	5	30
beta-BHC			0.100	0.0872		ug/L		87	50 - 142	5	30
delta-BHC			0.100	0.0759		ug/L		76	54 - 124	4	30
Endosulfan I			0.100	0.0744		ug/L		74	44 - 130	10	30
Endosulfan II			0.100	0.0829	I	ug/L		83	47 - 130	1	30
Endosulfan sulfate			0.100	0.0937	I	ug/L		94	50 - 139	5	30
Endrin aldehyde			0.100	0.0802	I	ug/L		80	49 - 143	9	30
Heptachlor epoxide			0.100	0.0803		ug/L		80	50 - 130	4	30
Methoxychlor			0.100	0.0756	I	ug/L		76	48 - 144	6	30
4,4'-DDT			0.100	0.0674	I	ug/L		67	36 - 140	5	24
Aldrin			0.100	0.0678		ug/L		68	25 - 135	1	30
Dieldrin			0.100	0.0836	I	ug/L		84	30 - 146	4	30
Endrin			0.100	0.0802	I	ug/L		80	38 - 140	2	32
gamma-BHC (Lindane)			0.100	0.0826		ug/L		83	36 - 135	7	34
Heptachlor			0.100	0.0664		ug/L		66	26 - 131	7	30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 640-94585/3-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94585

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*10 - 120*
Dibutylchlorendate	*89*		*10 - 130*
Tetrachloro-m-xylene	*56*		*10 - 110*

Lab Sample ID: 640-39704-2 MS
Matrix: Water
Analysis Batch: 94815

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.17	U	2.50	0.364	I	ug/L		15	15 - 139
PCB-1260	0.087	U	2.50	0.347	I J	ug/L		14	24 - 154

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*12*		*10 - 120*
Dibutylchlorendate	*10*		*10 - 130*
Tetrachloro-m-xylene	*6*	*J*	*10 - 110*

Lab Sample ID: 640-39704-2 MSD
Matrix: Water
Analysis Batch: 94815

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.17	U	2.50	0.534	I	ug/L		21	15 - 139	38	38
PCB-1260	0.087	U	2.50	0.357	I J	ug/L		14	24 - 154	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*13*		*10 - 120*
Dibutylchlorendate	*12*		*10 - 130*
Tetrachloro-m-xylene	*8*	*J*	*10 - 110*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	0.32	U	2.0	0.32	ug/L		07/30/12 14:02	08/01/12 13:57	1
Disulfoton	0.12	U	2.0	0.12	ug/L		07/30/12 14:02	08/01/12 13:57	1
Famphur	0.11	U	2.0	0.11	ug/L		07/30/12 14:02	08/01/12 13:57	1
Methyl parathion	0.12	U	0.50	0.12	ug/L		07/30/12 14:02	08/01/12 13:57	1
Ethyl Parathion	0.080	U	1.0	0.080	ug/L		07/30/12 14:02	08/01/12 13:57	1
Phorate	0.16	U	1.0	0.16	ug/L		07/30/12 14:02	08/01/12 13:57	1
Thionazin	0.061	U	1.0	0.061	ug/L		07/30/12 14:02	08/01/12 13:57	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 640-94585/1-A
Matrix: Water
Analysis Batch: 94679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94585

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	98		37 - 139	07/30/12 14:02	08/01/12 13:57	1

Lab Sample ID: LCS 640-94585/6-A
Matrix: Water
Analysis Batch: 94679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Famphur			2.50	2.30		ug/L		92	50 - 130		
Methyl parathion			2.50	2.15		ug/L		86	43 - 140		
Ethyl Parathion			2.50	2.31		ug/L		92	49 - 134		
Phorate			2.50	1.72		ug/L		69	50 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate (TPP)	95		37 - 139

Lab Sample ID: LCSD 640-94585/7-A
Matrix: Water
Analysis Batch: 94679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94585

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Famphur			2.50	2.29		ug/L		92	50 - 130	0	30
Methyl parathion			2.50	2.29		ug/L		91	43 - 140	6	30
Ethyl Parathion			2.50	2.44		ug/L		98	49 - 134	6	30
Phorate			2.50	1.95		ug/L		78	50 - 130	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Triphenylphosphate (TPP)	95		37 - 139

Lab Sample ID: 640-39704-2 MS
Matrix: Water
Analysis Batch: 94679

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Famphur	0.11	U	2.50	0.845	I J	ug/L		34	50 - 130		
Methyl parathion	0.12	U	2.50	1.38		ug/L		55	32 - 137		
Ethyl Parathion	0.080	U	2.50	1.33		ug/L		53	32 - 138		
Phorate	0.16	U	2.50	1.17	J	ug/L		47	50 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
Triphenylphosphate (TPP)	22	J	37 - 139

Lab Sample ID: 640-39704-2 MSD
Matrix: Water
Analysis Batch: 94679

Client Sample ID: TANK-6
Prep Type: Total/NA
Prep Batch: 94585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Famphur	0.11	U	2.50	1.12	I J	ug/L		45	50 - 130	28	30

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: 640-39704-2 MSD | **Client Sample ID: TANK-6**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 94679 | **Prep Batch: 94585**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl parathion	0.12	U	2.50	1.73		ug/L		69	32 - 137	23	48
Ethyl Parathion	0.080	U	2.50	1.69		ug/L		68	32 - 138	24	44
Phorate	0.16	U	2.50	1.37		ug/L		55	50 - 130	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*30*	*J*	*37 - 139*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 680-244903/21-A | **Client Sample ID: Method Blank**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 245392 | **Prep Batch: 244903**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.037	U	0.50	0.037	ug/L		07/30/12 08:03	08/01/12 11:49	1
2,4,5-T	0.062	U	0.50	0.062	ug/L		07/30/12 08:03	08/01/12 11:49	1
Silvex (2,4,5-TP)	0.062	U	0.50	0.062	ug/L		07/30/12 08:03	08/01/12 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*52 - 151*	*07/30/12 08:03*	*08/01/12 11:49*	*1*

Lab Sample ID: LCS 680-244903/22-A | **Client Sample ID: Lab Control Sample**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 245392 | **Prep Batch: 244903**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	2.00	1.97		ug/L		99	63 - 130
2,4,5-T	2.00	1.79		ug/L		90	59 - 130
Silvex (2,4,5-TP)	2.00	1.66		ug/L		83	64 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*100*		*52 - 151*

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)

Lab Sample ID: G2H060000128B | **Client Sample ID: Method Blank**
Matrix: Water | **Prep Type: Total**
Analysis Batch: 2219128 | **Prep Batch: 2219128_P**

Analyte	MB Result	MB Qualifier	PQL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	7.8	U	10	7.8	pg/L		08/07/12 09:00	08/13/12 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*99*		*42 - 164*	*08/07/12 09:00*	*08/13/12 20:09*	*1*

Method: 1613B-Tetras - Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only) (Continued)

Lab Sample ID: G2H060000128B
Matrix: Water
Analysis Batch: 2219128

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2219128_P

Internal Standard	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	42		31 - 137	08/07/12 09:00	08/13/12 20:09	1

Lab Sample ID: G2H060000128C
Matrix: Water
Analysis Batch: 2219128

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2219128_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	203		pg/L		102	73 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
37Cl4-2,3,7,8-TCDD	110		37 - 158

Internal Standard	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	49		25 - 141

Lab Sample ID: G2H060000128L
Matrix: Water
Analysis Batch: 2219128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 2219128_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	200	174		pg/L		87	73 - 146	15	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
37Cl4-2,3,7,8-TCDD	116		37 - 158

Internal Standard	LCSD %Recovery	LCSD Qualifier	Limits
13C-2,3,7,8-TCDD	38		25 - 141

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-245244/1-A
Matrix: Water
Analysis Batch: 245395

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245244

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24	U	50	24	ug/L		08/01/12 09:52	08/02/12 08:13	1
Sodium	0.28	U	1.0	0.28	mg/L		08/01/12 09:52	08/02/12 08:13	1

Lab Sample ID: LCS 680-245244/2-A
Matrix: Water
Analysis Batch: 245395

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1050		ug/L		105	75 - 125
Sodium	5.00	5.39		mg/L		108	75 - 125

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

TestAmerica Job ID: 640-39704-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-245014/1-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245014

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Barium	1.3	U	5.0	1.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		07/30/12 16:27	08/03/12 04:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		07/30/12 16:27	08/03/12 04:00	1
Chromium	2.5	U	5.0	2.5	ug/L		07/30/12 16:27	08/03/12 04:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		07/30/12 16:27	08/03/12 04:00	1
Copper	1.1	U	5.0	1.1	ug/L		07/30/12 16:27	08/03/12 04:00	1
Lead	0.20	U	1.5	0.20	ug/L		07/30/12 16:27	08/03/12 04:00	1
Nickel	2.0	U	5.0	2.0	ug/L		07/30/12 16:27	08/03/12 04:00	1
Selenium	1.0	U	2.5	1.0	ug/L		07/30/12 16:27	08/03/12 04:00	1
Silver	0.25	U	1.0	0.25	ug/L		07/30/12 16:27	08/03/12 04:00	1
Thallium	0.50	U	1.0	0.50	ug/L		07/30/12 16:27	08/03/12 04:00	1
Tin	1.3	U	5.0	1.3	ug/L		07/30/12 16:27	08/03/12 04:00	1
Vanadium	3.8	U	10	3.8	ug/L		07/30/12 16:27	08/03/12 04:00	1
Zinc	8.3	U	20	8.3	ug/L		07/30/12 16:27	08/03/12 04:00	1

Lab Sample ID: LCS 680-245014/2-A
Matrix: Water
Analysis Batch: 245592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	59.6		ug/L		119	75 - 125
Arsenic	100	102		ug/L		102	75 - 125
Barium	100	105		ug/L		105	75 - 125
Beryllium	50.0	48.8		ug/L		98	75 - 125
Cadmium	50.0	50.8		ug/L		102	75 - 125
Chromium	100	96.8		ug/L		97	75 - 125
Cobalt	50.0	49.9		ug/L		100	75 - 125
Copper	100	100		ug/L		100	75 - 125
Lead	50.0	53.9		ug/L		108	75 - 125
Nickel	100	99.8		ug/L		100	75 - 125
Selenium	100	98.1		ug/L		98	75 - 125
Silver	50.0	51.2		ug/L		102	75 - 125
Thallium	40.0	42.0		ug/L		105	75 - 125
Tin	100	109		ug/L		109	75 - 125
Vanadium	100	97.3		ug/L		97	75 - 125
Zinc	100	97.5		ug/L		98	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-245104/1-A
Matrix: Water
Analysis Batch: 245374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245104

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		07/31/12 11:09	08/01/12 13:18	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-245104/2-A
Matrix: Water
Analysis Batch: 245374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.13		ug/L		85	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-246004/2
Matrix: Water
Analysis Batch: 246004

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			08/07/12 10:26	5

Lab Sample ID: LCS 680-246004/3
Matrix: Water
Analysis Batch: 246004

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-246004/4
Matrix: Water
Analysis Batch: 246004

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	50.0	49.3		mg/L		99	90 - 110	0	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-245779/1
Matrix: Water
Analysis Batch: 245779

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			08/06/12 15:24	1

Lab Sample ID: LCS 680-245779/2
Matrix: Water
Analysis Batch: 245779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.04		mg/L		104	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-245914/3
Matrix: Water
Analysis Batch: 245914

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			08/07/12 13:30	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-245914/6
Matrix: Water
Analysis Batch: 245914

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			0.998	0.950		mg/L		95	90 - 110		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 680-245759/5
Matrix: Water
Analysis Batch: 245759

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/06/12 10:53	1

Lab Sample ID: LCS 680-245759/6
Matrix: Water
Analysis Batch: 245759

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			250	223		mg/L		89	80 - 120		

Lab Sample ID: LCSD 680-245759/32
Matrix: Water
Analysis Batch: 245759

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
Alkalinity			250	224		mg/L		90	80 - 120	0	30

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 660-127299/1
Matrix: Water
Analysis Batch: 127299

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/01/12 16:09	1

Lab Sample ID: LCS 660-127299/2
Matrix: Water
Analysis Batch: 127299

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			10000	9980		mg/L		100	80 - 120		

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 680-245222/1-A
Matrix: Water
Analysis Batch: 245268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245222

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0025	U	0.010	0.0025	mg/L		08/01/12 07:15	08/01/12 11:26	1

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: LCS 680-245222/2-A
Matrix: Water
Analysis Batch: 245268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0490		mg/L		98	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 680-245080/1
Matrix: Water
Analysis Batch: 245080

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			07/31/12 10:02	1

Lab Sample ID: LCS 680-245080/2
Matrix: Water
Analysis Batch: 245080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	12.5	9.41		mg/L		75	75 - 125

Lab Sample ID: LCSD 680-245080/3
Matrix: Water
Analysis Batch: 245080

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
Sulfide	12.5	9.58		mg/L		76	75 - 125	2	30

GC/MS VOA

Analysis Batch: 94641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8260C	
640-39704-2	TANK-6	Total/NA	Water	8260C	
640-39704-3	Trip Blank 39704	Total/NA	Water	8260C	
LCS 640-94641/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-94641/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-94641/28	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 94588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	3520C	
640-39704-1 - DL	COMP-1	Total/NA	Water	3520C	
LCS 640-94588/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-94588/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-94588/1-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 94621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-2	TANK-6	Total/NA	Water	3520C	
640-39704-2 MS	TANK-6	Total/NA	Water	3520C	
640-39704-2 MSD	TANK-6	Total/NA	Water	3520C	
LCS 640-94621/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-94621/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-94621/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 94758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8270D	94588
LCS 640-94588/2-A	Lab Control Sample	Total/NA	Water	8270D	94588
LCSD 640-94588/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	94588
MB 640-94588/1-A	Method Blank	Total/NA	Water	8270D	94588

Analysis Batch: 95002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1 - DL	COMP-1	Total/NA	Water	8270D	94588
640-39704-2	TANK-6	Total/NA	Water	8270D	94621
640-39704-2 MS	TANK-6	Total/NA	Water	8270D	94621
640-39704-2 MSD	TANK-6	Total/NA	Water	8270D	94621
LCS 640-94621/2-A	Lab Control Sample	Total/NA	Water	8270D	94621
LCSD 640-94621/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	94621
MB 640-94621/1-A	Method Blank	Total/NA	Water	8270D	94621

GC Semi VOA

Prep Batch: 94585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	3520C	
640-39704-2	TANK-6	Total/NA	Water	3520C	
640-39704-2 MS	TANK-6	Total/NA	Water	3520C	
640-39704-2 MS	TANK-6	Total/NA	Water	3520C	
640-39704-2 MSD	TANK-6	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 94585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-2 MSD	TANK-6	Total/NA	Water	3520C	
LCS 640-94585/19-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 640-94585/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 640-94585/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-94585/20-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 640-94585/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 640-94585/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-94585/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 94679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8141B	94585
640-39704-2	TANK-6	Total/NA	Water	8141B	94585
640-39704-2 MS	TANK-6	Total/NA	Water	8141B	94585
640-39704-2 MSD	TANK-6	Total/NA	Water	8141B	94585
LCS 640-94585/6-A	Lab Control Sample	Total/NA	Water	8141B	94585
LCSD 640-94585/7-A	Lab Control Sample Dup	Total/NA	Water	8141B	94585
MB 640-94585/1-A	Method Blank	Total/NA	Water	8141B	94585

Analysis Batch: 94685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-94585/2-A	Lab Control Sample	Total/NA	Water	8081B/8082A	94585
LCSD 640-94585/3-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	94585
MB 640-94585/1-A	Method Blank	Total/NA	Water	8081B/8082A	94585

Analysis Batch: 94795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8081B/8082A	94585
640-39704-2	TANK-6	Total/NA	Water	8081B/8082A	94585

Analysis Batch: 94815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8081B/8082A	94585
640-39704-2	TANK-6	Total/NA	Water	8081B/8082A	94585
640-39704-2 MS	TANK-6	Total/NA	Water	8081B/8082A	94585
640-39704-2 MSD	TANK-6	Total/NA	Water	8081B/8082A	94585
LCS 640-94585/19-A	Lab Control Sample	Total/NA	Water	8081B/8082A	94585
LCSD 640-94585/20-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	94585
MB 640-94585/1-A	Method Blank	Total/NA	Water	8081B/8082A	94585

Prep Batch: 94825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8011	
640-39704-2	TANK-6	Total/NA	Water	8011	
LCS 640-94825/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-94825/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-94825/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 94864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8011	94825
640-39704-2	TANK-6	Total/NA	Water	8011	94825

GC Semi VOA (Continued)

Analysis Batch: 94864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-94825/2-A	Lab Control Sample	Total/NA	Water	8011	94825
LCSD 640-94825/3-A	Lab Control Sample Dup	Total/NA	Water	8011	94825
MB 640-94825/1-A	Method Blank	Total/NA	Water	8011	94825

Analysis Batch: 94875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8081B/8082A	94585
640-39704-2	TANK-6	Total/NA	Water	8081B/8082A	94585
MB 640-94585/1-A	Method Blank	Total/NA	Water	8081B/8082A	94585

Prep Batch: 244903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8151A	
640-39704-2	TANK-6	Total/NA	Water	8151A	
LCS 680-244903/22-A	Lab Control Sample	Total/NA	Water	8151A	
MB 680-244903/21-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 245392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-2	TANK-6	Total/NA	Water	8151A	244903
LCS 680-244903/22-A	Lab Control Sample	Total/NA	Water	8151A	244903
MB 680-244903/21-A	Method Blank	Total/NA	Water	8151A	244903

Analysis Batch: 245725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	8151A	244903

Specialty Organics

Analysis Batch: 2219128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total	Water	1613B-Tetras	
640-39704-2	TANK-6	Total	Water	1613B-Tetras	
G2H060000128B	Method Blank	Total	Water	1613B-Tetras	
G2H060000128C	Lab Control Sample	Total	Water	1613B-Tetras	
G2H060000128L	Lab Control Sample Dup	Total	Water	1613B-Tetras	

Prep Batch: 2219128_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total	Water	EXTRACTION: Soxhlet and Sep Funnel	
640-39704-2	TANK-6	Total	Water	EXTRACTION: Soxhlet and Sep Funnel	
G2H060000128B	Method Blank	Total	Water	EXTRACTION: Soxhlet and Sep Funnel	
G2H060000128C	Lab Control Sample	Total	Water	EXTRACTION: Soxhlet and Sep Funnel	
G2H060000128L	Lab Control Sample Dup	Total	Water	EXTRACTION: Soxhlet and Sep Funnel	

Metals

Prep Batch: 245014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total Recoverable	Water	3005A	
640-39704-2	TANK-6	Total Recoverable	Water	3005A	
LCS 680-245014/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245014/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 245104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	7470A	
640-39704-2	TANK-6	Total/NA	Water	7470A	
LCS 680-245104/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-245104/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 245244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total Recoverable	Water	3005A	
640-39704-2	TANK-6	Total Recoverable	Water	3005A	
LCS 680-245244/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-245244/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 245374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	7470A	245104
640-39704-2	TANK-6	Total/NA	Water	7470A	245104
LCS 680-245104/2-A	Lab Control Sample	Total/NA	Water	7470A	245104
MB 680-245104/1-A	Method Blank	Total/NA	Water	7470A	245104

Analysis Batch: 245395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total Recoverable	Water	6010B	245244
640-39704-2	TANK-6	Total Recoverable	Water	6010B	245244
LCS 680-245244/2-A	Lab Control Sample	Total Recoverable	Water	6010B	245244
MB 680-245244/1-A	Method Blank	Total Recoverable	Water	6010B	245244

Analysis Batch: 245517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-2	TANK-6	Total Recoverable	Water	6010B	245244

Analysis Batch: 245592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total Recoverable	Water	6020	245014
640-39704-2	TANK-6	Total Recoverable	Water	6020	245014
LCS 680-245014/2-A	Lab Control Sample	Total Recoverable	Water	6020	245014
MB 680-245014/1-A	Method Blank	Total Recoverable	Water	6020	245014

General Chemistry

Analysis Batch: 94908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	Nitrate by calc	
640-39704-2	TANK-6	Total/NA	Water	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 127299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	SM 2540C	
640-39704-2	TANK-6	Total/NA	Water	SM 2540C	
LCS 660-127299/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127299/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 245080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	SM 4500 S2 F	
640-39704-2	TANK-6	Total/NA	Water	SM 4500 S2 F	
LCS 680-245080/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 680-245080/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
MB 680-245080/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 245222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	Distill/CN	
640-39704-2	TANK-6	Total/NA	Water	Distill/CN	
LCS 680-245222/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 680-245222/1-A	Method Blank	Total/NA	Water	Distill/CN	

Analysis Batch: 245268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	SM 4500 CN E	245222
640-39704-2	TANK-6	Total/NA	Water	SM 4500 CN E	245222
LCS 680-245222/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	245222
MB 680-245222/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	245222

Analysis Batch: 245759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	SM 2320B	
640-39704-2	TANK-6	Total/NA	Water	SM 2320B	
LCS 680-245759/6	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 680-245759/32	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
MB 680-245759/5	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 245779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	350.1	
640-39704-2	TANK-6	Total/NA	Water	350.1	
LCS 680-245779/2	Lab Control Sample	Total/NA	Water	350.1	
MB 680-245779/1	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 245914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	353.2	
640-39704-2	TANK-6	Total/NA	Water	353.2	
LCS 680-245914/6	Lab Control Sample	Total/NA	Water	353.2	
MB 680-245914/3	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 246004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 246004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-2	TANK-6	Total/NA	Water	300.0	
LCS 680-246004/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-246004/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-246004/2	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 95074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39704-1	COMP-1	Total/NA	Water	Field Sampling	
640-39704-2	TANK-6	Total/NA	Water	Field Sampling	

Client Sample ID: COMP-1

Lab Sample ID: 640-39704-1

Date Collected: 07/25/12 13:30

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	94641	07/31/12 19:57	LS	TAL TAL
Total/NA	Prep	3520C			94588	07/30/12 14:14	JS	TAL TAL
Total/NA	Analysis	8270D		1	94758	08/03/12 19:07	VW	TAL TAL
Total/NA	Prep	3520C	DL		94588	07/30/12 14:14	JS	TAL TAL
Total/NA	Analysis	8270D	DL	20	95002	08/13/12 23:42	VW	TAL TAL
Total/NA	Prep	3520C			94585	07/30/12 14:02	JS	TAL TAL
Total/NA	Analysis	8141B		1	94679	08/01/12 14:28	MLT	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94795	08/02/12 17:43	MLT	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94815	08/06/12 17:57	MLT	TAL TAL
Total/NA	Prep	8011			94825	08/06/12 12:22	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 17:29	JPB	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94875	08/08/12 13:42	MLT	TAL TAL
Total/NA	Prep	8151A			244903	07/30/12 08:03	CTR	TAL SAV
Total/NA	Analysis	8151A		10	245725	08/03/12 17:51	SMP	TAL SAV
Total	Prep	EXTRACTION: Soxhlet and Sep Funnel			2219128_P	08/07/12 09:00	TL	TAL WSC
Total	Analysis	1613B-Tetras		1	2219128	08/14/12 00:30	LLH	TAL WSC
Total/NA	Prep	7470A			245104	07/31/12 11:09	UU	TAL SAV
Total/NA	Analysis	7470A		1	245374	08/01/12 14:17	RAM	TAL SAV
Total Recoverable	Prep	3005A			245244	08/01/12 09:52	VHB	TAL SAV
Total Recoverable	Analysis	6010B		1	245395	08/02/12 09:10	BCB	TAL SAV
Total Recoverable	Prep	3005A			245014	07/30/12 16:27	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 06:24	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		20	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	SM 4500 S2 F		1	245080	07/31/12 10:02	CN	TAL SAV
Total/NA	Prep	Distill/CN			245222	08/01/12 07:15	DAM	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1	245268	08/01/12 11:37	DAM	TAL SAV
Total/NA	Analysis	SM 2320B		1	245759	08/06/12 14:09	LE	TAL SAV
Total/NA	Analysis	350.1		1000	245779	08/06/12 16:21	JR	TAL SAV
Total/NA	Analysis	353.2		20	245914	08/07/12 14:08	JR	TAL SAV
Total/NA	Analysis	300.0		100	246004	08/07/12 12:43	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	95074	07/25/12 13:30	SF	TAL TAL

Client Sample ID: TANK-6

Lab Sample ID: 640-39704-2

Date Collected: 07/25/12 14:10

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 18:08	LS	TAL TAL
Total/NA	Prep	3520C			94621	07/31/12 12:06	JS	TAL TAL
Total/NA	Analysis	8270D		1	95002	08/13/12 23:16	VW	TAL TAL
Total/NA	Prep	3520C			94585	07/30/12 14:02	JS	TAL TAL

Client Sample ID: TANK-6

Lab Sample ID: 640-39704-2

Date Collected: 07/25/12 14:10

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8141B		1	94679	08/01/12 14:12	MLT	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94795	08/02/12 17:57	MLT	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94815	08/06/12 18:11	MLT	TAL TAL
Total/NA	Prep	8011			94825	08/06/12 12:22	JPB	TAL TAL
Total/NA	Analysis	8011		1	94864	08/07/12 17:43	JPB	TAL TAL
Total/NA	Analysis	8081B/8082A		1	94875	08/08/12 13:59	MLT	TAL TAL
Total/NA	Prep	8151A			244903	07/30/12 08:03	CTR	TAL SAV
Total/NA	Analysis	8151A		1	245392	08/01/12 12:37	SMP	TAL SAV
Total	Prep	EXTRACTION: Soxhlet and Sep Funnel			2219128_P	08/07/12 09:00	TL	TAL WSC
Total	Analysis	1613B-Tetras		1.01	2219128	08/14/12 01:07	LLH	TAL WSC
Total/NA	Prep	7470A			245104	07/31/12 11:09	UU	TAL SAV
Total/NA	Analysis	7470A		1	245374	08/01/12 14:21	RAM	TAL SAV
Total Recoverable	Prep	3005A			245244	08/01/12 09:52	VHB	TAL SAV
Total Recoverable	Analysis	6010B		1	245395	08/02/12 09:17	BCB	TAL SAV
Total Recoverable	Analysis	6010B		100	245517	08/02/12 17:27	BCB	TAL SAV
Total Recoverable	Prep	3005A			245014	07/30/12 16:27	VHB	TAL SAV
Total Recoverable	Analysis	6020		1	245592	08/03/12 06:30	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		10	94908	08/09/12 14:16	TBW	TAL TAL
Total/NA	Analysis	SM 2540C		1	127299	08/01/12 16:09	TO	TAL TAM
Total/NA	Analysis	SM 4500 S2 F		1	245080	07/31/12 10:02	CN	TAL SAV
Total/NA	Prep	Distill/CN			245222	08/01/12 07:15	DAM	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1	245268	08/01/12 11:38	DAM	TAL SAV
Total/NA	Analysis	SM 2320B		1	245759	08/06/12 14:36	LE	TAL SAV
Total/NA	Analysis	350.1		1000	245779	08/06/12 16:21	JR	TAL SAV
Total/NA	Analysis	353.2		10	245914	08/07/12 14:10	JR	TAL SAV
Total/NA	Analysis	300.0		100	246004	08/07/12 12:55	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	95074	07/25/12 14:10	SF	TAL TAL

Client Sample ID: Trip Blank 39704

Lab Sample ID: 640-39704-3

Date Collected: 07/25/12 00:00

Matrix: Water

Date Received: 07/27/12 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	94641	07/31/12 13:05	LS	TAL TAL

Laboratory References:

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

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

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

TestAmerica Job ID: 640-39704-1

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	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Oklahoma	State Program	6	9986	08-31-12
Texas	NELAC	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

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
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	08-15-12
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12

Certification Summary

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

TestAmerica Job ID: 640-39704-1

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
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-12
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

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	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica West Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAC	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAC	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-12
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAC	5	200060	03-17-13
Kansas	NELAC	7	E-10375	10-31-12
Louisiana	NELAC	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAC	2	CA005	06-30-13
New York	NELAC	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAC	10	CA200005	03-28-13
Pennsylvania	NELAC	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAC	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAC	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia	State Program	3	9930C	12-31-12
West Virginia DEP	State Program	3	334	07-31-13
Wisconsin	State Program	5	998204680	08-31-12
Wyoming	State Program	8	8TMS-Q	01-31-13

Method Summary

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

TestAmerica Job ID: 640-39704-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL TAL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL TAL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL TAL
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL TAL
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL TAL
8151A	Herbicides (GC)	SW846	TAL SAV
1613B-Tetras	Dioxins/Furans, HRGC/HRMS (1613B-Tetras Only)	EPA-5	TAL WSC
6010B	Metals (ICP)	SW846	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL TAL
SM 2320B	Alkalinity	SM	TAL SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 4500 CN E	Cyanide, Total	SM	TAL SAV
SM 4500 S2 F	Sulfide, Total	SM	TAL SAV
Field Sampling	Field Sampling	EPA	TAL TAL

Protocol References:

EPA = US Environmental Protection Agency

EPA-5 = EPA-5

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

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

TestAmerica Job ID: 640-39704-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-39704-1	COMP-1	Water	07/25/12 13:30	07/27/12 08:00
640-39704-2	TANK-6	Water	07/25/12 14:10	07/27/12 08:00
640-39704-3	Trip Blank 39704	Water	07/25/12 00:00	07/27/12 08:00

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/30/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33749-7750.1
Client Contact: Ms. Jennifer Pardy	Phone: 225,907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 2
Company: Golder Associates Inc.				Job #: 640-39704
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:4			
Email: jennifer_pardy@golder.com	WO #:			
Project Name: Trail Ridge Landfill - Leachate Event Desc: Annual Leachate	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia	2320B, SM4500_NO2_B	SUBCONTRACT - 2,3,7,8-TCDD	8081B_8082A, 8141B	8270D - Appendix II SVOCs	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - App II VOCs	353.2 - Nitrate Nitrite as N	300.0_28D - Chloride	6010B, 6020, 7470A	8151A - App II Herbicides	SM4500_S2_F - Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	N	N	N	R	N	S	N	D	N	CB		
COMP-1 (LGS)	7-25	1330	C	W	N		1	1	2	4	2	1	3	3	1	1	1	2	2		
TANK 6 (LDSS)	7-25	1410	G	W	N		1	1	2	4	2	1	3	3	1	1	1	2	2		
TRIP	7-25	—	G	W	N									✓							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7-26-12 / 0820	PRO-TECH		7/26/12 0820	TA
2		7/26/12 1136	TA		8/27/12 820	TA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.9, 1.0

TestAmerica Jacksonville
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/30/2012

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-33749-7750.2
Client Contact: Ms. Jennifer Pardy	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 2 of 2
Company: Golder Associates Inc.				Job #: 640-39704
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #: PO105298:4			
Email: jennifer_pardy@golder.com	WO #:			
Project Name: Trail Ridge Landfill - Leachate Event Desc: Annual Leachate	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500_CN_E - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				B		
Comp-1 (LCS)	7-25	1330	C	W	N		1		
TANK 6 (LDSS)	7-25	1410	G	W	N		1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 7-26-12 / 0820	Company: PRO-TECH	Received by:	Date/Time: 7/26/12 0820	Company: TA		
Relinquished by:	Date/Time: 7/26/12 1130	Company: TA	Received by:	Date/Time: 7/27/12 800	Company: TA		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.9 1.6

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE FL	
WELL NO: LCS	SAMPLE ID:		DATE: 7.25-12

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA	NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1330	NA	NA	NA	NA	7.35	38.2	22890	0.2	521.4	-301	BLACK	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y N (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
X	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
Sheen Present: YES NO LCS- LEACHATE SAMPLE COMPOSIT OF TANKS #1-#5

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: LDSS	SAMPLE ID:		DATE: 7-25-12

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA	NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1410	NA	NA	NA	NA	7.52	33.8	9123	0.1	34.55	12	Amber	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAN ARMOUR / PEO-TECH		1410	NA

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA		

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
X	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
Sheen Present: (YES) NO LDSS - LEACHATE SAMPLE FROM TANK #6

MATERIAL CODES (Specify): AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

APPENDIX C
HYDRAULIC GRADIENT CALCULATIONS

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: SSG
Checked by: MJS
Reviewd by: RWP

Purpose: To determine groundwater flow direction and calculate horizontal hydraulic gradients for shallow, intermediate, and deep portions of the surficial aquifer at the Trail Ridge Landfill.

Method for Determination of Horizontal Hydraulic Gradient:

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{\underline{AB}}$$

Where:

i	Hydraulic gradient (dimensionless)
Δh	Difference of hydraulic head
Δs	Horizontal distance between two points
$GWE_{A, B}$	Groundwater elevation of points A and B (in feet)
$\underline{AB}$	The horizontal distance between points A and B (in feet), where AB is perpendicular to potentiometric contours

Using the following groundwater elevation data:

	GWE_A	GWE_B
Shallow	140' contour	MWB-22(S)
Intermediate	135' contour	MWB-12(I)
Deep	MWB-31(D)	120' contour

	GWE (feet)	ft
MWB-22(S)	115.67	
MWB-12(I)	117.76	
MWB-31(D)	139.48	

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Made by: SSG
Checked by: MJS
Reviewd by: RWP

Goal: Calculate the hydraulic gradient for the surficial aquifer - shallow depth

Condition: Static

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{AB}$$

Shallow gradient:

$$i = \frac{\text{140' contour - MWB-22(S)}}{\text{2500'}} = \frac{\text{140' - 113.49'}}{\text{2500'}}$$

i = 0.0106 ft/ft

Intermediate gradient:

$$i = \frac{\text{135' contour - MWB-12(I)}}{\text{1800'}} = \frac{\text{135' - 117.76'}}{\text{1800'}}$$

i = 0.0096 ft/ft

Deep gradient:

$$i = \frac{\text{MWB-31(D) -120' contour}}{\text{2600'}} = \frac{\text{139.48' - 120'}}{\text{2600}}$$

i = 0.0075 ft/ft

Average gradient:

i = 0.0092 ft/ft

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Trail Ridge Landfill, Jacksonville, Florida
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Made by:	SSG
Checked by:	MJS
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Horizontal Hydraulic Gradients:

Shallow horizontal gradient is	0.0106	ft/ft
Intermediate horizontal gradient is	0.0096	ft/ft
Deep horizontal gradient is	0.0075	ft/ft
Average horizontal gradient is	0.0092	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
GROUND WATER 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 Number0013495-017-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.

(Date) (Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Tech. Support Services (ProTech)

Analytical Lab NELAC / HRS Certification # Florida E81005

Lab Name Test America, Inc.

Address 2846 Industrial Plaza Drive, Tallahassee, FL 32301

Phone Number (850)878-3994

Email address (if available) amy.marks@testamaricainc.com