Trail Ridge Landfill

Semi-Annual Water Quality Data Report

Operating Permit Number 0013493-017-SO

Prepared for:

Trail Ridge Landfill
5110 U.S. Highway 301 South
Baldwin, FL 32234

Prepared by:

HDR Engineering, Inc.
200 West Forsyth Street, Suite 800
Jacksonville, Florida 32202
904.598.8900
904.598.8988 FAX

April 2010

Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31)
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9)

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Trail Ridge Landfill, Inc.

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number (850) 474-8846

(2) WACS Facility ID NED/16/00033628

(3) DEP Permit Number 0013493-017-SO

(4) Authorized Representative's Name Eric Parker Title Manager of Env. Protection

Address 5110 US Hwy 301

City Baldwin, FL Zip 322534 County Duval

Telephone Number (904) 289-9100 Ext. 212

Email address (if available) EParker1@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

4/2/10
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Tech. Support Services

Analytical Lab NELAC / HRS Certification # NELAP Certification E87667

Lab Name Test America, Inc.

Address 4955 Yarrow Street, Arvada, CO 80002

Phone Number (303) 736-0100

Email address (if available) Danielle.Harrington@testamericainc.com

TRAIL RIDGE LANDFILL

Semiannual Water Quality Data Report

Prepared for:
Trail Ridge Landfill
5110 U.S. Highway 301, South
Jacksonville, Florida 32234

FDEP Permit Number	0013493-017-SO
WACS ID Number	NED/16/00033628

Prepared by:
HDR Engineering, Inc.
200 West Forsyth Street
Suite 800
Jacksonville, Florida 32202
(904) 598-8900
(904) 598-8988 fax

April 2010

EXECUTIVE SUMMARY

Semiannual Water Quality Data Report for Trail Ridge Landfill

This semiannual water quality monitoring report was completed on behalf of the Trail Ridge Landfill (Trail Ridge) located in Jacksonville, Duval County, Florida. The data reviewed were obtained during the routine semiannual detection monitoring event conducted in February 2010. The groundwater at Trail Ridge is monitored by thirty-seven wells including five background wells. Three surface water sample points in accordance with Permit Number 0013493-010-SC. The groundwater wells are monitored semiannually for the detection monitoring parameters listed under Attachment 6 and Specific Conditions 45 of the Permit. And three surface water points are also monitored semiannually for the detection monitoring parameters listed under Attachment 9 and Specific Conditions 46 of the Permit. Leachate is monitored annually and reported during the 2nd semiannual sampling event for the parameters listed in Specific Condition 40 of the Permit. Condensate is discharged into the leachate collection system, which is monitored in accordance with the leachate sampling requirement. Therefore testing of gas condensate is no longer conducted.

A detailed review of the monitoring data indicates that iron exceeded the Secondary Drinking Water Standard (SDWS) in samples from 23 of the 37 monitoring wells including four background wells. This finding is consistent with historical reports which show that the levels of iron in the groundwater at Trail Ridge result from the interaction of the groundwater with the soil mineralogy and are characteristic of the groundwater in Duval County. The pH of samples from 32 of the 37 wells was below the SDWS of 6.5 S.U., including four background wells (i.e., pH's below 6.5 S.U. are naturally occurring).

Several VOCs were detected from one well (MWB-2S) at trace levels slightly above laboratory detection limits but below the reporting limit and substantially below applicable groundwater standards. VOC's detected at trace levels include benzene, m&p-xylenes, o-xylene, and toluene. These concentrations are substantially below their respective groundwater standards. These compounds are common field and laboratory contaminants; MWB-2S is being resampled to confirm these compounds are not present.

The field measured pH of the surface water sample from both SW-1 and SW-2 (background location) was below the Class III standard (pH 6.0). Fecal coliform from SW-3 was detected above the monthly average limit (400 cfu/100 ml) but was below the 800 cfu/100 ml any one day Class III standard. Turbidity, iron, and lead at SW-3 were also detected above the calculated Class III standards, which may be due to high sample turbidity. Lead from SW-1 and beryllium from SW-2 were also detected above the Class III standards. The remainder of the data meets the water quality standards. All three surface water points will be resampled to test for the parameters detected at levels above Class III standards.

Overall, the data reported is consistent with the site's overall groundwater quality and historical data. The parameters detected at levels above applicable SDWS have been previously reported to the FDEP and there are no new exceedances requiring reporting under 62-701.510(7)a.

Based on recent monitoring well inspections, all of the wells are maintained in good condition. Surface seals, protective casings, well caps, and well locks are in-place and in proper condition at each well to ensure that

samples collected from the wells are representative of the aquifer. Trail Ridge will continue to closely monitor the facility and evaluate the water quality data obtained during detection monitoring.

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1.0 INTRODUCTION

This semiannual groundwater monitoring report is submitted on behalf of the Trail Ridge Landfill (Trail Ridge) located in Jacksonville, Florida. Trail Ridge is located to the west of US Highway 301 South, in the western portion of Duval County, Florida. It is located at 5110 U.S. Highway 301 South in Baldwin, Florida. The landfill is about 4 1/2 miles southwest of the intersection of US 301 and I-10. Trail Ridge is an active municipal solid waste landfill owned by the City of Jacksonville and operated by Waste Management. Operation of the Landfill is in accordance with Permit Number 0013493-017-SO, issued September 16, 2009 and the applicable provisions of previous permits.

The data submitted in this groundwater quality assessment were obtained during the routine semiannual detection-monitoring event conducted on February 16-18, 2010. During this monitoring period, groundwater wells were monitored for the parameters listed in Attachment 6 of the permit. In conjunction with the groundwater monitoring, surface water samples were collected and analyzed for the parameters listed in Attachment 9 of the permit.

The groundwater and surface water monitoring program at Trail Ridge incorporates monitoring elements to provide environmental protection during site operation and after landfill closure. All field work, sampling methodologies, data evaluation, data QA/QC, and laboratory analyses were conducted in accordance with the site permit, and the sample team and National Environmental Laboratory Accreditation Conference (NELAC) standards.

1.1 Background

As identified in the following tables, 37 wells comprise the facility's routine groundwater monitoring system with an additional nine wells that are maintained but only sampled if required for assessment monitoring. Five of the 37 wells are designated background wells, seven wells are designated detection wells and 25 are designated as compliance wells. An additional nine compliance wells are part of the permitted groundwater monitoring network but in accordance with Specific Condition 45 of the permit not utilized unless required for assessment monitoring. Monitoring well designations are shown in the following tables.

Location	Well ID
Background	MWB-2(S)b, MWB-2(I)b MWB-3(S)b, MWB-3(I)b MWB-31(D)b
Phase I Compliance	MWB-7(S)c, MWB-7(I)c, MWB-7(D)c MWB-11(S)c, MWB-11(IR)c MWB-12(S)c, MWB-12(I)c, MWB-12(D)c MWB-19(S)c, MWB-19(I)c, MWB-19(D)c MWB-20(S)c MWB-21(S)c MWB-22(S)c
Phase II Compliance	MWB-17(S)c, MWB-17(I)c, MWB-17(D)c
Phase III & Phase IV Compliance	MWB-13(S)c, MWB-13(I)c
Phase III Detection	MWB-33(S)d MWB-34(S)d MWB-34(I)d, MWB-34(D)d
Phase V Compliance	MWB-27(S)c, MWB-27(I)c, MWB-27(D)c MWB-29(S)c, MWB-29(I)c, MWB-29(D)c
Phase V Detection	MWB-32(S)d, MWB-32(I)d, MWB-32(D)d

Specific Condition 48: These wells shall be maintained but will not be utilized unless required for assessment monitoring.	
Location	**Well ID**
Phase I Compliance	MWB-14(S)c, MWB-14(I)c, MWB-14(D)c
Phase III & Phase IV Compliance	MWB-23(S)c
Phase IV Compliance	MWB-24(S)c, MWB-25(S)c, MWB-25(I)c, MWB-25(D)c, MWB-26(S)c

The monitoring wells are installed around the perimeter of the landfill and are screened in three zones within the Surficial Aquifer (Shallow, Intermediate, and Deep zones). The monitoring wells are sampled and analyzed semiannually for the parameters listed in Attachment III of the permit. Sampling is required by permit to be conducted prior to March 30, and September 30 of each year, with reports submitted to the FDEP for each sampling period no later than April 15 and October 15 each year.

Surface water flow at the site mimics topography, with runoff in a predominantly eastward direction and drainage features trending west-east. There are three surface water monitoring sites (designated SW-1, SW-2, and SW-3). Monitoring location SW-1 is located in a wetland, approximately 200 feet east of the landfill's stormwater retention pond. Monitoring location SW-2 is located in a west-east trending drainage feature, approximately 500 feet north of the landfill. SW-2 is considered a background sampling

location, since it does not receive run-off directly from the landfill area. SW-3 is a new monitoring point established under the permit issued September 16, 2009 and is located in the existing stormwater pond approximately 700 feet east of the landfill boundary. SW-3 is collected at the discharge point if actively discharging or at the center of the pond if there is no discharge. In accordance with Chapter 62-701, FAC, surface water monitoring is performed on a semiannual basis in conjunction with the groundwater monitoring schedule.

In accordance with Specific Condition 40 of the operating permit, leachate is sampled and analyzed annually prior to September 30. Leachate collection pipes that lie on top of the primary liner terminate at the leachate collection sumps. These sumps also collect any leachate flowing along the secondary leak detection system. The sump is designed so that the leachate from the primary and secondary systems is separated. Therefore, it is necessary to have two pumps in each sump, one for the primary leachate collection system and one for the secondary leachate collection system. Two samples are collected, a composite sample (from tanks 1-5 designated LCS) and a sample of secondary leachate collection system (tank 6 designated LDSS). The leachate is pumped from the sumps through primary and secondary force mains to six 20,000-gallon storage tanks. Tanks 1 through 5 (interconnected) receive the leachate collected from all of the primary leachate collection sumps via one force main. Tank 6 receives leachate that is pumped through a separate force main from the secondary leachate collection sumps. Previous sampling procedures required sampling of all six tanks. However, since tanks 1 through 5 contain the same leachate, sampling procedures were modified during the 1997 permit renewal for the site to the collection of two (2) samples (one for the secondary leachate collection tank and one composite sample of the five primary leachate collection tanks).

In accordance with Specific Condition 38 of the current permit, gas condensate is discharged into the leachate collecting system and testing of condensate is no longer required.

In a letter dated June 15, 2004, FDEP concurred with the site Contamination Evaluation Plan and follow-up letter requesting that the site return to Detection Monitoring and to terminate sampling of the compliance wells. As reported previously, these compliance wells will not be sampled during future events unless otherwise required by the FDEP, and the site has returned to detection monitoring.

2.0 GROUNDWATER MONITORING DATA

The following section contains an evaluation of the groundwater monitoring data. The groundwater data from each of the compliance wells is compared to the background groundwater quality and the applicable water quality standards.

Professional Technical Support Services, Inc. (Pro-Tech) conducted the field activities at the Trail Ridge, in which groundwater elevation data, field measurements, and samples for laboratory analyses were collected. Columbia Analytical Services performed the laboratory analyses. The laboratory reports for the groundwater samples are included in Appendix A.

2.1 Field Data

On February 16-18, 2010, Pro-Tech performed the field activities at the Trail Ridge. The field measurements, sample collection, and sample preservation were conducted in accordance with Rule 62-160, F.A.C. and the FDEP Standard Operating Procedures (DEP-SOP-001/01). Prior to purging (on February 16th), depth to water and water level elevations were recorded to the nearest hundredth of a foot from a surveyed reference datum. The water level measurements were utilized for determining water volumes in the well casing and used to determine groundwater flow direction and gradient at the site (Figures 1-3). Water levels were collected within the same day prior to sampling.

The average horizontal gradient across the site indicates that groundwater flow directions and gradients in the three zones are very similar, with the deep zone on average, having a slightly flatter gradient than the shallow and intermediate zones. There were no obvious seasonal trends in gradient fluctuations. As noted in previous reports, groundwater flow direction in all three zones is predominantly eastward. Current data reflects little change or variation in flow direction in any of the three zones.

Bladder pumps were used to evacuate a volume (2.2 to 32.3 gallons) of water from within each monitoring well. Following completion of purging activities, samples were collected from the wells using the bladder pumps. During sampling, field parameters including dissolved oxygen, pH, temperature, turbidity, specific conductance, and physical characteristics of the water samples, as well as the meteorological conditions at the time of sampling were noted on the field forms with the field data (Appendix A). Following collection of samples into laboratory provided containers and ice chests. The samples were forwarded to the contract laboratory under signed chain of custody documentation. Trip blanks were submitted for laboratory analyses with the samples.

A review of the field data shows that the pH levels reported for the groundwater samples collected at four background wells (MWB-2(S)b, MWB-2(I)b, MWB-3(S)b, and MWB-3(I)b and 28 compliance/detection wells (MWB-7(S)c, MWB-7(I)c, MWB-11(S)c, MWB-11(I)c, MWB-12(S)c, MWB-12(I)c, MWB-13(S)c, MWB-13(I)c, MWB-17(S)c, MWB-17(I)c, MWB-17(D)c, MWB-19(S)c, MWB-19(I)c, MWB-20(S)c, MWB-21(S)c, MWB-22(S)c, MWB-27(S)c, MWB-27(I)c, MWB-27(D)c, MWB-29(S)c, MWB-29(I)c, MWB-29(D)c, MWB-32(S)d, MWB-32(I)d, MWB-32(D)d, MWB-33(S)d, MWB-34(S)d, and MWB-34(I)d) were below the SDWS specified range of 6.5–8.5 SU. Based on historical data, these pH levels are characteristic of the site.

2.2 Laboratory Parameters

The groundwater samples collected from the site were transferred to Columbia Analytical Services (located in Jacksonville, FL) for analysis. The laboratory analyses including the quality control procedures were conducted in accordance with Rule 62-160, F.A.C. Samples submitted were analyzed within the required holding times, unless otherwise noted in the laboratory reports. Quality controls exceedances are discussed in the narrative portion of the laboratory reports for each lot of samples analyzed. The monitoring parameters were compared to the groundwater quality standards as designated in 62-550.310 and 62-550.320, F.A.C.

A review of the groundwater data notes that:

- Total iron exceeded the FDEP's SDWS of 300 μg/L at four background monitoring wells (MWB-2(I)b, MWB-3(S)b, MWB-3(I)b and MWB-31(D)b and 19 compliance/detection wells (MWB-7(I)c, MWB-11(S)c, MWB-11(IR)c, MWB-12(D)c, MWB-17(I)c, MWB-17(D)c, MWB-19(S)c, MWB-19(I)c, MWB-19(D)c, MWB-27(I)c, MWB-27(D)c, MWB-29(S)c, MWB-29(I)c, MWB-29(D)c, MWB-32(D)d, MWB-33(S)d, MWB-34(S)d, MWB-34(I)d, and MWB-34(D)d). Iron concentrations have historically been reported above the SDWS at this site and are considered to be reflective of natural groundwater conditions in the area. Iron was reported above the SDWS in samples from the background wells.

- Benzene, xylene, and toluene were detected in the sample from MWB-2(S)c at concentrations slightly above the Method Detection Limit (MDL) but below the reporting limits and substantially below their respective PDWS's. These compounds are common field and laboratory contaminants. The well was re-sampled for these compounds on April 6th; results will be transmitted to the FDEP under separate cover.

3.0 SURFACE WATER MONITORING DATA

The following section contains an evaluation of the surface water monitoring data. The surface water data is compared to the applicable water quality standards. The laboratory reports and field forms for the surface water samples are included in Appendix B.

A review of the surface water data notes that none of the volatile organic compounds (VOCs) monitored for were detected above the laboratory reporting limits. Florida regulatory standards (Chapter 62-302, FAC for Florida Class III Surface Waters) for the following parameters were exceeded in the surface water samples collected at the site. These compounds have been resampled (April 6th) and the results will be reported to the FDEP upon receipt of the laboratory data:

- Consistent with historical data, field measured pH for SW-1 and SW-2 (the background location) was below the Class III Surface Water Standard of 6.0 SU.
- Fecal Coliform count at SW-3 was 450 cfu/100ml, which is above the Class III standard of 400 MPN (10% of samples should not exceed), but was below the 800 MPN maximum on any one day criteria.
- Turbidity and Iron concentration from SW-3 was above the Class III standard. The detection of iron at these levels is likely associated with a high turbidity (333 NTU).
- Lead concentrations from SW-1 and SW-3 were above the calculated Class III standard. .
- Beryllium from SW-2 was detected below the reporting limit, but was above the Class III standard (0.13 ug/L annual average).

All other surface water data are below groundwater quality standards and are consistent with the historical data obtained.

4.0 LEACHATE MONITORING DATA

In accordance with Specific Condition 40 of the permit, leachate is sampled annually prior to September 30 and analyzed and has not been sampled for the current event. Gas condensate is now discharged into the leachate; and condensate testing is no longer required.

5.0 SUMMARY

The data obtained during this semiannual monitoring event at the Trail Ridge are generally consistent with the historical data. No groundwater parameters were detected above the PDWS during this sampling event. The groundwater parameters detected at levels above applicable SDWS have been previously reported to the FDEP and there are no new exceedances requiring reporting under 62-701.510(7)a. Total iron and pH for most groundwater samples (including background samples) routinely exceeded SDWS for most wells. These detections are consistent with background water quality.

The field measured pH, iron, lead, and fecal coliform for one or more surface water locations were above the respective Class III standards. The low pH has historically been detected in both up and down stream surface water samples and are not considered a result of site activities. Turbidity, iron, lead, and colifrom bacteria from SW-3 were above the Class III standards, which are probably due to high turbidity. Surface water sites were resampled to verify the parameters detected above the Class III standard on April 5th. The remainder of the data is below applicable groundwater or surface water quality standards and is consistent with historical data. The monitoring well network continues to adequately monitor the landfill.

6.0 CERTIFICATION

This document has been prepared under my direction in general accordance with Chapter 62-701, Florida Solid Waste Management Facility Regulations. The information contained within this report is to the best of my knowledge and belief, true, accurate, and complete.

Handi Wang, PhD, CPSS
HDR Engineering, Inc.
Sr. Environmental Scientist

Bradford M. Stone, P.E.
HDR Engineering, Inc
Vice President
FL License No. 53110
Date 4-12-2010

FIGURES

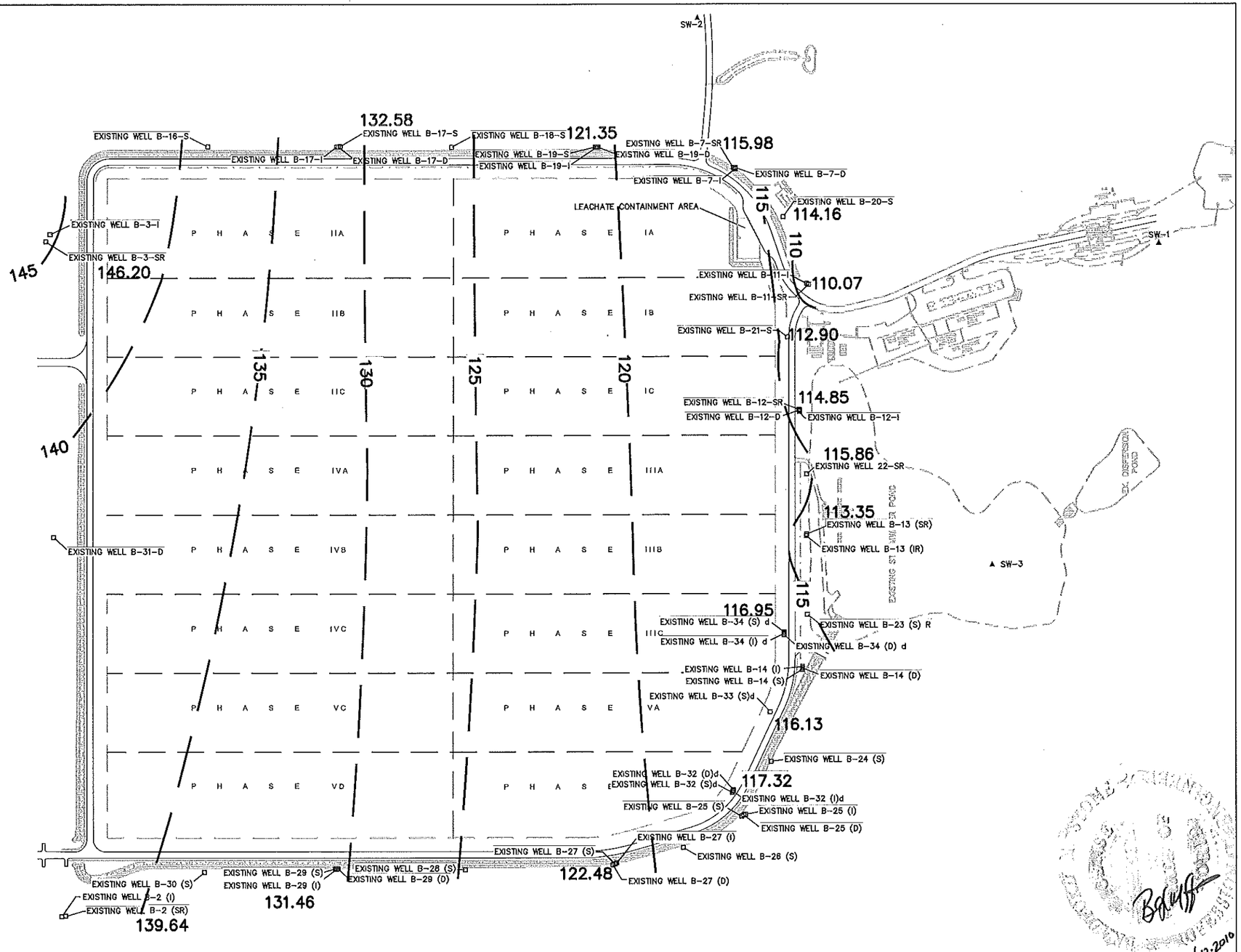
N

GRAPHIC SCALE

250 100 0 100 200 300 400

(IN FEET)

1 INCH = 400 FEET



4-12-2010

HDR

HDR ENGINEERING, INC.
200 W. FORSYTH ST.
SUITE 800
JACKSONVILLE, FL 32202
(904) 598-8900

GROUNDWATER CONTOUR MAP
SHALLOW WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: FEBRUARY 16, 2010

DATE
APR. 2010

FIGURE
FIG 1

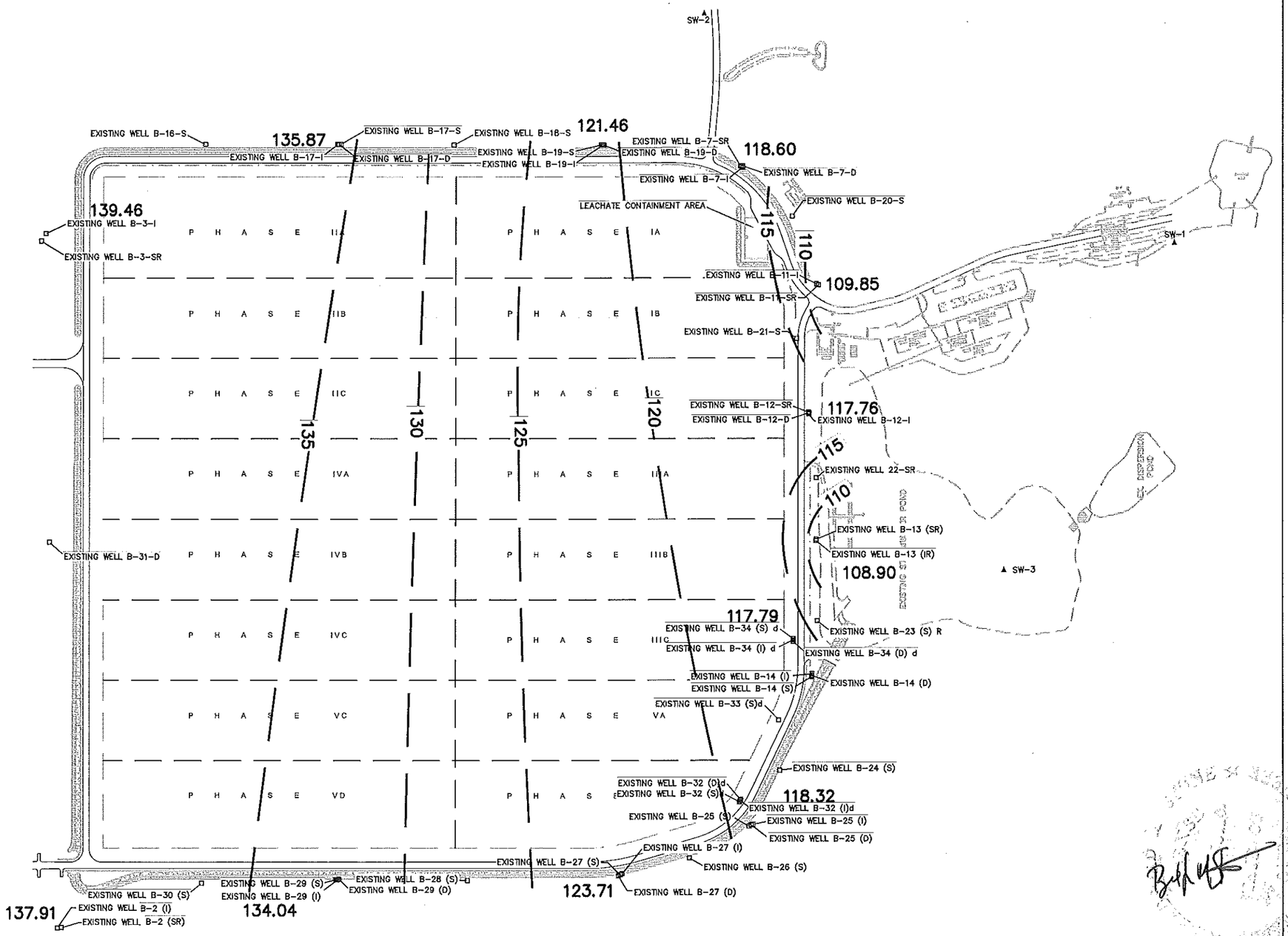
N

GRAPHIC SCALE

250 100 0 100 200 300 400

(IN FEET)

1 INCH = 400 FEET



HDR

HDR ENGINEERING, INC.
200 W. FORSYTH ST.
SUITE 800
JACKSONVILLE, FL 32202
(904) 598-8900

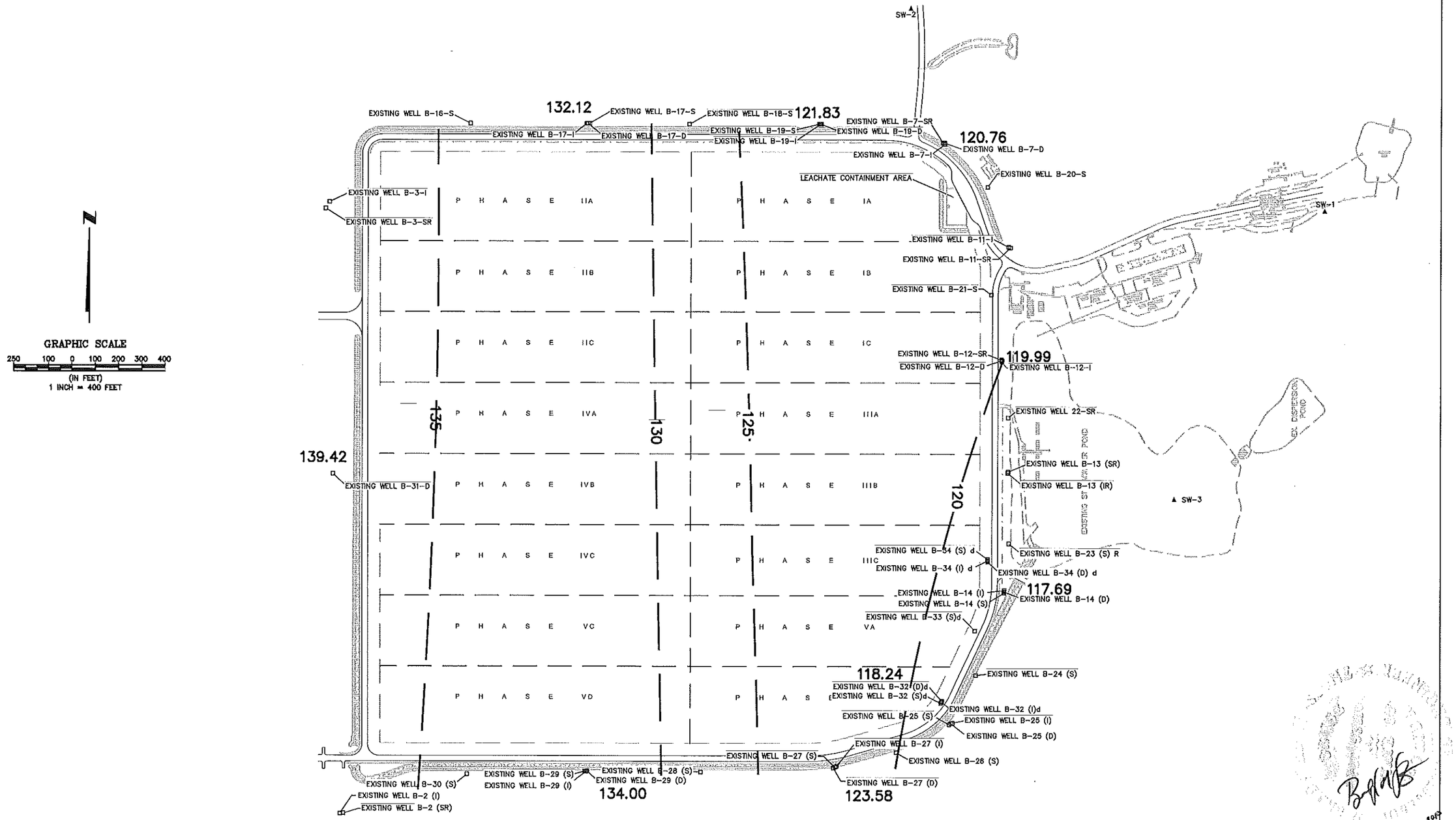
GROUNDWATER CONTOUR MAP
INTERMEDIATE WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: FEBRUARY 16, 2010

DATE
APR. 2010

FIGURE
FIG 2

4-12-2010



4-12-2010

HDR

HDR ENGINEERING, INC.
200 W. FORSYTH ST.
SUITE 800
JACKSONVILLE, FL 32202
(904) 598-8900

GROUNDWATER CONTOUR MAP
DEEP WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: FEBRUARY 16, 2010

DATE
APR. 2010

FIGURE
FIG 3

APPENDIX A

Laboratory Reports – Groundwater Sample Points with Field Data Sheets

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

March 29, 2010

Service Request No: J1000787

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge Landfill

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on February 17, 2010. For your reference, these analyses have been assigned our service request number **J1000787**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1000787
Project:	Trail Ridge Landfill	**Date Received:**	2/17/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Twenty-seven water samples and one trip blank were received for analysis at Columbia Analytical Services on 2/17/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of Bromomethane and Chloroethane for sample DUP02 were outside control criteria. Recoveries in the Laboratory Control Sample were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another

Approved by _____ **Date** 3/29/10

sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Approved by _____ **Date** 3/29/10

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:
Project: Trail Ridge Landfill

Service Request: J1000787

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1000787-001	MWB17I	2/16/10	18:24
J1000787-002	MWB17D	2/16/10	17:55
J1000787-003	MWB3I	2/16/10	17:23
J1000787-004	MWB3S	2/16/10	16:54
J1000787-005	MWB31D	2/16/10	16:24
J1000787-006	MWB2S	2/16/10	15:51
J1000787-007	MWB2I	2/16/10	15:20
J1000787-008	DUP01	2/16/10	15:20
J1000787-009	MWB29S	2/16/10	14:50
J1000787-010	MWB29I	2/16/10	14:20
J1000787-011	MWB29D	2/16/10	13:49
J1000787-012	MWB27S	2/16/10	13:14
J1000787-013	MWB27I	2/16/10	12:43
J1000787-014	MWB27D	2/16/10	12:10
J1000787-015	MWB17S	2/17/10	07:06
J1000787-016	MWB19D	2/17/10	07:40
J1000787-017	MWB19I	2/17/10	08:13
J1000787-018	MWB19S	2/17/10	08:43
J1000787-019	DUP02	2/17/10	08:43
J1000787-020	MWB7D	2/17/10	09:20
J1000787-021	MWB7I	2/17/10	09:52
J1000787-022	MWB7S	2/17/10	10:18
J1000787-023	MWB20S	2/17/10	10:45
J1000787-024	MWB11I(R)	2/17/10	11:17
J1000787-025	MWB11S	2/17/10	11:45
J1000787-026	MWB21S	2/17/10	12:13
J1000787-027	DUP03	2/17/10	12:13
J1000787-028	Trip Blank	2/17/10	00:00

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17I
Lab Code: J1000787-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17I
Lab Code: J1000787-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	100	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	104	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17D
Lab Code: J1000787-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17D
Lab Code: J1000787-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	99	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	100	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB3I
Lab Code: J1000787-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB3I
Lab Code: J1000787-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	90	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB3S
Lab Code: J1000787-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB3S
Lab Code: J1000787-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	99	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	100	82-116	Acceptable
Toluene-d8	101	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB31D
Lab Code: J1000787-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB31D
Lab Code: J1000787-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	104	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2S
Lab Code: J1000787-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	**0.56**	I	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	**0.79**	I	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2S
Lab Code: J1000787-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	**0.48**	I	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	**0.21**	I	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	104	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	107	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2I
Lab Code: J1000787-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2I
Lab Code: J1000787-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	105	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP01
Lab Code: J1000787-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP01
Lab Code: J1000787-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	99	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	101	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29S
Lab Code: J1000787-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29S
Lab Code: J1000787-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	103	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	101	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29I
Lab Code: J1000787-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29I
Lab Code: J1000787-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	104	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	103	82-116	Acceptable
Toluene-d8	104	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29D
Lab Code: J1000787-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29D
Lab Code: J1000787-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	98	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB27S
Lab Code: J1000787-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB27S
Lab Code: J1000787-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	98	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	101	82-116	Acceptable
Toluene-d8	102	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MWB27I	**Units:**	ug/L
Lab Code:	J1000787-013	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB27I
Lab Code: J1000787-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	102	82-116	Acceptable
Toluene-d8	106	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB27D
Lab Code: J1000787-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB27D
Lab Code: J1000787-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	96	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17S
Lab Code: J1000787-015

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB17S
Lab Code: J1000787-015

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	98	71-122	Acceptable
4-Bromofluorobenzene	89	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	113	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19D
Lab Code: J1000787-016

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19D
Lab Code: J1000787-016

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	107	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19I
Lab Code: J1000787-017

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19I
Lab Code: J1000787-017

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	100	71-122	Acceptable
4-Bromofluorobenzene	89	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19S
Lab Code: J1000787-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB19S
Lab Code: J1000787-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	102	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP02
Lab Code: J1000787-019

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP02
Lab Code: J1000787-019

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/26/10	02/26/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/26/10	02/26/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	105	71-122	Acceptable
4-Bromofluorobenzene	90	75-120	Acceptable
Dibromofluoromethane	101	82-116	Acceptable
Toluene-d8	102	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7D
Lab Code: J1000787-020

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7D
Lab Code: J1000787-020

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	105	71-122	Acceptable
4-Bromofluorobenzene	106	75-120	Acceptable
Dibromofluoromethane	102	82-116	Acceptable
Toluene-d8	106	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7I
Lab Code: J1000787-021

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7I
Lab Code: J1000787-021

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	84	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	85	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7S
Lab Code: J1000787-022

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB7S
Lab Code: J1000787-022

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	84	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	87	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB20S
Lab Code: J1000787-023

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB20S
Lab Code: J1000787-023

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	85	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	86	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11I(R)
Lab Code: J1000787-024

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11I(R)
Lab Code: J1000787-024

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	80	71-122	Acceptable
4-Bromofluorobenzene	97	75-120	Acceptable
Dibromofluoromethane	83	82-116	Acceptable
Toluene-d8	97	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11S
Lab Code: J1000787-025

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11S
Lab Code: J1000787-025

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	80	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	83	82-116	Acceptable
Toluene-d8	92	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB21S
Lab Code: J1000787-026

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB21S
Lab Code: J1000787-026

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	82	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	84	82-116	Acceptable
Toluene-d8	96	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP03
Lab Code: J1000787-027

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP03
Lab Code: J1000787-027

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	103	71-122	Acceptable
4-Bromofluorobenzene	107	75-120	Acceptable
Dibromofluoromethane	102	82-116	Acceptable
Toluene-d8	106	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000787-028

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000787-028

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	105	71-122	Acceptable
4-Bromofluorobenzene	108	75-120	Acceptable
Dibromofluoromethane	101	82-116	Acceptable
Toluene-d8	106	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000779-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/22/10	02/22/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/22/10	02/22/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/22/10	02/22/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/22/10	02/22/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/22/10	02/22/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/22/10	02/22/10	
Acetone	ND	U	50	2.4	6300	1	02/22/10	02/22/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/22/10	02/22/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/22/10	02/22/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/22/10	02/22/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/22/10	02/22/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/22/10	02/22/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/22/10	02/22/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/22/10	02/22/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/22/10	02/22/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/22/10	02/22/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/22/10	02/22/10	
Chloroform	ND	U	1.0	0.10	70	1	02/22/10	02/22/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/22/10	02/22/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/22/10	02/22/10	
Benzene	ND	U	1.0	0.52	1	1	02/22/10	02/22/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/22/10	02/22/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/22/10	02/22/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/22/10	02/22/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/22/10	02/22/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/22/10	02/22/10	
Toluene	ND	U	1.0	0.52	40	1	02/22/10	02/22/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/22/10	02/22/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/22/10	02/22/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/22/10	02/22/10	
2-Hexanone	ND	U	25	0.36	280	1	02/22/10	02/22/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/22/10	02/22/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000779-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/22/10	02/22/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/22/10	02/22/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/22/10	02/22/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/22/10	02/22/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/22/10	02/22/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/22/10	02/22/10	
Styrene	ND	U	1.0	0.051	100	1	02/22/10	02/22/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/22/10	02/22/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/22/10	02/22/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/22/10	02/22/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/22/10	02/22/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/22/10	02/22/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/22/10	02/22/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/22/10	02/22/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	84	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	86	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000828-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000828-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	109	75-120	Acceptable
Dibromofluoromethane	102	82-116	Acceptable
Toluene-d8	109	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000830-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/25/10	02/25/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/25/10	02/25/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/25/10	02/25/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/25/10	02/25/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/25/10	02/25/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/25/10	02/25/10	
Acetone	ND	U	50	2.4	6300	1	02/25/10	02/25/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/25/10	02/25/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/25/10	02/25/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/25/10	02/25/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/25/10	02/25/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/25/10	02/25/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/25/10	02/25/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/25/10	02/25/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/25/10	02/25/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/25/10	02/25/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/25/10	02/25/10	
Chloroform	ND	U	1.0	0.10	70	1	02/25/10	02/25/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/25/10	02/25/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/25/10	02/25/10	
Benzene	ND	U	1.0	0.52	1	1	02/25/10	02/25/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/25/10	02/25/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/25/10	02/25/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/25/10	02/25/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/25/10	02/25/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/25/10	02/25/10	
Toluene	ND	U	1.0	0.52	40	1	02/25/10	02/25/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/25/10	02/25/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/25/10	02/25/10	
2-Hexanone	ND	U	25	0.36	280	1	02/25/10	02/25/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/25/10	02/25/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000830-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/25/10	02/25/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/25/10	02/25/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/25/10	02/25/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/25/10	02/25/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/25/10	02/25/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/25/10	02/25/10	
Styrene	ND	U	1.0	0.051	100	1	02/25/10	02/25/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/25/10	02/25/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/25/10	02/25/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/25/10	02/25/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/25/10	02/25/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/25/10	02/25/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/25/10	02/25/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/25/10	02/25/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	101	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	105	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17I	**Units:**	ug/L
Lab Code:	J1000787-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	92	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17D	**Units:**	ug/L
Lab Code:	J1000787-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	95	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB3I
Lab Code: J1000787-003

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0062	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	94	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB3S
Lab Code: J1000787-004

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	93	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB31D	**Units:**	ug/L
Lab Code:	J1000787-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	83	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB2S	**Units:**	ug/L
Lab Code:	J1000787-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	96	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB2I	**Units:**	ug/L
Lab Code:	J1000787-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	103	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	DUP01	**Units:**	ug/L
Lab Code:	J1000787-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	93	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB29S
Lab Code: J1000787-009

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	94	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29I	**Units:**	ug/L
Lab Code:	J1000787-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	94	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29D	**Units:**	ug/L
Lab Code:	J1000787-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	99	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB27S	**Units:**	ug/L
Lab Code:	J1000787-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/16/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB27I	**Units:**	ug/L
Lab Code:	J1000787-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	104	77-150	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/16/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB27D
Lab Code: J1000787-014

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	103	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17S	**Units:**	ug/L
Lab Code:	J1000787-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	95	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB19D
Lab Code: J1000787-016

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	99	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB19I	**Units:**	ug/L
Lab Code:	J1000787-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB19S
Lab Code: J1000787-018

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	DUP02	**Units:**	ug/L
Lab Code:	J1000787-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	102	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB7D	**Units:**	ug/L
Lab Code:	J1000787-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	97	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB7I	**Units:**	ug/L
Lab Code:	J1000787-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	103	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB7S
Lab Code: J1000787-022

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	107	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB20S	**Units:**	ug/L
Lab Code:	J1000787-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	108	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB11I(R)	**Units:**	ug/L
Lab Code:	J1000787-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	106	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB11S	**Units:**	ug/L
Lab Code:	J1000787-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	110	77-150	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 02/17/2010
Date Received: 02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB21S
Lab Code: J1000787-026

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	107	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/17/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	DUP03	**Units:**	ug/L
Lab Code:	J1000787-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	109	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1000753-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1000754-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	93	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1824
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB17I		
Lab Code:	J1000787-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:36
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:36
Barium, Total	6020	**35.8**		µg/L	2.0	0.5	1	2/23/10	2/25/10 16:36
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:36
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:36
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:36
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:36
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:36
Iron, Total	6010B	**318**		µg/L	50	4	1	2/23/10	2/25/10 11:13
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:36
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:50
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:36
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:36
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:36
Sodium, Total	6010B	**3.20**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:12
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:36
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:36
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1755
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB17D		
Lab Code:	J1000787-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:40
Arsenic, Total	6020	**0.16**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:40
Barium, Total	6020	**32.6**		µg/L	2.0	0.5	1	2/23/10	2/25/10 16:40
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:40
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:40
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:40
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:40
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:40
Iron, Total	6010B	**387**		µg/L	50	4	1	2/23/10	2/25/10 11:16
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:40
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:51
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:40
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:40
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:40
Sodium, Total	6010B	**3.41**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:15
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:40
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:40
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:40

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1723
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB3I		
Lab Code:	J1000787-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:45
Arsenic, Total	6020	**0.27**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:45
Barium, Total	6020	**24.7**		µg/L	2.0	0.5	1	2/23/10	2/25/10 16:45
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:45
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:45
Chromium, Total	6020	**1**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:45
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:45
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:45
Iron, Total	6010B	**725**		µg/L	50	4	1	2/23/10	2/25/10 11:19
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:45
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:53
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:45
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:45
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:45
Sodium, Total	6010B	**3.75**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:19
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:45
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:45
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:45

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1654
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB3S		
Lab Code:	J1000787-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:50
Arsenic, Total	6020	**0.23**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:50
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	2/23/10	2/25/10 16:50
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:50
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:50
Chromium, Total	6020	**1**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:50
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:50
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:50
Iron, Total	6010B	**318**		µg/L	50	4	1	2/23/10	2/25/10 11:23
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:50
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:54
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:50
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:50
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:50
Sodium, Total	6010B	**3.73**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:22
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:50
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:50
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB31D
Lab Code: J1000787-005

Service Request: J1000787
Date Collected: 2/16/10 1624
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:55
Arsenic, Total	6020	**0.26**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:55
Barium, Total	6020	**90.1**		µg/L	2.0	0.5	1	2/23/10	2/25/10 16:55
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:55
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:55
Chromium, Total	6020	**1**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:55
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:55
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:55
Iron, Total	6010B	**589**		µg/L	50	4	1	2/23/10	2/25/10 11:43
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:55
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:56
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:55
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:55
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:55
Sodium, Total	6010B	**6.38**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:43
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:55
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:55
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:55

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1551
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB2S		
Lab Code:	J1000787-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:29
Arsenic, Total	6020	**0.32**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:29
Barium, Total	6020	**9.2**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:29
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:29
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:29
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:29
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:29
Copper, Total	6020	**2.4**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:29
Iron, Total	6010B	**94**		µg/L	50	4	1	2/23/10	2/25/10 11:47
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:29
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:00
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:29
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:29
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:29
Sodium, Total	6010B	**3.25**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:46
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:29
Vanadium, Total	6020	**2.6**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:29
Zinc, Total	6020	**3**	I	µg/L	10	3	1	2/23/10	2/25/10 17:29

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1520
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB2I		
Lab Code:	J1000787-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:33
Arsenic, Total	6020	**0.28**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:33
Barium, Total	6020	**21.8**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:33
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:33
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:33
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:33
Iron, Total	6010B	**339**		µg/L	50	4	1	2/23/10	2/25/10 11:50
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:08
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:33
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:33
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:33
Sodium, Total	6010B	**4.72**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:33
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:33
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:33

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: DUP01
Lab Code: J1000787-008

Service Request: J1000787
Date Collected: 2/16/10 1520
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:38
Arsenic, Total	6020	**0.36**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:38
Barium, Total	6020	**21.7**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:38
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:38
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:38
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:38
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:38
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:38
Iron, Total	6010B	**360**		µg/L	50	4	1	2/23/10	2/25/10 11:54
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:38
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:09
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:38
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:38
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:38
Sodium, Total	6010B	**4.69**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:38
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:38
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:38

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB29S
Lab Code: J1000787-009

Service Request: J1000787
Date Collected: 2/16/10 1450
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:43
Arsenic, Total	6020	**0.34**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:43
Barium, Total	6020	**10.2**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:43
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:43
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:43
Iron, Total	6010B	**327**		µg/L	50	4	1	2/23/10	2/25/10 11:57
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:11
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:43
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:43
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:43
Sodium, Total	6010B	**7.99**		mg/L	0.50	0.02	1	2/23/10	2/25/10 11:56
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:43
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:43
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:43

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB29I
Lab Code: J1000787-010

Service Request: J1000787
Date Collected: 2/16/10 1420
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:48
Arsenic, Total	6020	**0.29**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:48
Barium, Total	6020	**43.9**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:48
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:48
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:48
Iron, Total	6010B	**352**		µg/L	50	4	1	2/23/10	2/25/10 12:01
Lead, Total	6020	**0.6**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:12
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:48
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:48
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:48
Sodium, Total	6010B	**3.56**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:48
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:48
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB29D
Lab Code: J1000787-011

Service Request: J1000787
Date Collected: 2/16/10 1349
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:52
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:52
Barium, Total	6020	**54.2**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:52
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:52
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:52
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 17:52
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:52
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:52
Iron, Total	6010B	**689**		µg/L	50	4	1	2/23/10	2/25/10 12:04
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:52
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:13
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:52
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:52
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:52
Sodium, Total	6010B	**3.88**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:03
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:52
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 17:52
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:52

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 2/16/10 1314
Date Received: 2/17/10

Sample Name: MWB27S
Lab Code: J1000787-012

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:57
Arsenic, Total	6020	**0.50**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 17:57
Barium, Total	6020	**23.8**		µg/L	2.0	0.5	1	2/23/10	2/25/10 17:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 17:57
Chromium, Total	6020	**2.2**		µg/L	2.0	0.6	1	2/23/10	2/25/10 17:57
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	2/23/10	2/25/10 17:57
Copper, Total	6020	**1.5**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 17:57
Iron, Total	6010B	**92**		µg/L	50	4	1	2/23/10	2/25/10 12:07
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 17:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:18
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 17:57
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 17:57
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 17:57
Sodium, Total	6010B	**9.04**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:07
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 17:57
Vanadium, Total	6020	**9.8**		µg/L	5.0	1.2	1	2/23/10	2/25/10 17:57
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 17:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/16/10 1243
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB27I		
Lab Code:	J1000787-013	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:02
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:02
Barium, Total	6020	**53.0**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:02
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:02
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:02
Chromium, Total	6020	**0.9**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:02
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:02
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:02
Iron, Total	6010B	**502**		µg/L	50	4	1	2/23/10	2/25/10 12:17
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:02
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:19
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:02
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:02
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:02
Sodium, Total	6010B	**3.51**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:02
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:02
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:02

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB27D
Lab Code: J1000787-014

Service Request: J1000787
Date Collected: 2/16/10 1210
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:17
Arsenic, Total	6020	**0.21**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:17
Barium, Total	6020	**53.2**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:17
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:17
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:17
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:17
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:17
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:17
Iron, Total	6010B	**625**		µg/L	50	4	1	2/23/10	2/25/10 12:20
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:17
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:21
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:17
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:17
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:17
Sodium, Total	6010B	**3.62**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:19
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:17
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:17
Zinc, Total	6020	**4**	I	µg/L	10	3	1	2/23/10	2/25/10 18:17

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB17S
Lab Code: J1000787-015

Service Request: J1000787
Date Collected: 2/17/10 0706
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:21
Arsenic, Total	6020	**0.46**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:21
Barium, Total	6020	**2.9**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:21
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:21
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:21
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:21
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:21
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:21
Iron, Total	6010B	**205**		µg/L	50	4	1	2/23/10	2/25/10 12:23
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:21
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:22
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:21
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:21
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:21
Sodium, Total	6010B	**4.24**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:23
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:21
Vanadium, Total	6020	**2.5**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:21
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:21

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 0740
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB19D		
Lab Code:	J1000787-016	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:26
Arsenic, Total	6020	**1.03**		µg/L	0.50	0.14	1	2/23/10	2/25/10 18:26
Barium, Total	6020	**101**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:26
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:26
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:26
Chromium, Total	6020	**2.7**		µg/L	2.0	0.6	1	2/23/10	2/25/10 18:26
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:26
Copper, Total	6020	**0.8**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:26
Iron, Total	6010B	**1220**		µg/L	50	4	1	2/23/10	2/25/10 12:27
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:26
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:24
Nickel, Total	6020	**1.3**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:26
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:26
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:26
Sodium, Total	6010B	**4.70**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:26
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:26
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:26
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:26

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB19I
Lab Code: J1000787-017

Service Request: J1000787
Date Collected: 2/17/10 0813
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:31
Arsenic, Total	6020	**0.41**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:31
Barium, Total	6020	**58.1**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:31
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:31
Cadmium, Total	6020	**0.24**	I	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:31
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:31
Cobalt, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:31
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:31
Iron, Total	6010B	**550**		µg/L	50	4	1	2/23/10	2/25/10 12:30
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:31
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:25
Nickel, Total	6020	**1.5**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:31
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:31
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:31
Sodium, Total	6010B	**3.76**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:29
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:31
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:31
Zinc, Total	6020	**5**	I	µg/L	10	3	1	2/23/10	2/25/10 18:31

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB19S
Lab Code: J1000787-018

Service Request: J1000787
Date Collected: 2/17/10 0843
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:36
Arsenic, Total	6020	**0.37**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:36
Barium, Total	6020	**40.4**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:36
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:36
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:36
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:36
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:36
Copper, Total	6020	**0.5**	I	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:36
Iron, Total	6010B	**602**		µg/L	50	4	1	2/23/10	2/25/10 12:34
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:36
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:27
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:36
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:36
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:36
Sodium, Total	6010B	**13.5**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:33
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:36
Vanadium, Total	6020	**3.0**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:36
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: DUP02
Lab Code: J1000787-019

Service Request: J1000787
Date Collected: 2/17/10 0843
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:40
Arsenic, Total	6020	**0.62**		µg/L	0.50	0.14	1	2/23/10	2/25/10 18:40
Barium, Total	6020	**42.7**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:40
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:40
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:40
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:40
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:40
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:40
Iron, Total	6010B	**612**		µg/L	50	4	1	2/23/10	2/25/10 12:37
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:40
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:28
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:40
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:40
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:40
Sodium, Total	6010B	**13.2**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:36
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:40
Vanadium, Total	6020	**2.9**	I	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:40
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:40

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 0920
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB7D		
Lab Code:	J1000787-020	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:45
Arsenic, Total	6020	**0.20**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 18:45
Barium, Total	6020	**82.4**		µg/L	2.0	0.5	1	2/23/10	2/25/10 18:45
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:45
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 18:45
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.6	1	2/23/10	2/25/10 18:45
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 18:45
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 18:45
Iron, Total	6010B	**249**		µg/L	50	4	1	2/23/10	2/25/10 12:40
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 18:45
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 15:30
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 18:45
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 18:45
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 18:45
Sodium, Total	6010B	**4.84**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:40
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 18:45
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 18:45
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 18:45

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 2/17/10 0952
Date Received: 2/17/10

Sample Name: MWB7I
Lab Code: J1000787-021

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:26
Arsenic, Total	6020	**0.48**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:26
Barium, Total	6020	**54.5**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:26
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:26
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:26
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:26
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:26
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/24/10 16:26
Iron, Total	6010B	**1160**		µg/L	50	4	1	2/23/10	2/25/10 12:56
Lead, Total	6020	**0.6**	I	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:26
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:09
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:26
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:26
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:26
Sodium, Total	6010B	**3.47**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:26
Vanadium, Total	6020	**1.7**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:26
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/24/10 16:26

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB7S
Lab Code: J1000787-022

Service Request: J1000787
Date Collected: 2/17/10 1018
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:31
Arsenic, Total	6020	**0.35**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:31
Barium, Total	6020	**12.8**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:31
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:31
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:31
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:31
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:31
Copper, Total	6020	**2.0**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:31
Iron, Total	6010B	**98**		µg/L	50	4	1	2/23/10	2/25/10 12:59
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:31
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:10
Nickel, Total	6020	**2.0**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:31
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:31
Silver, Total	6020	**0.60**		µg/L	0.50	0.09	1	2/23/10	2/24/10 16:31
Sodium, Total	6010B	**23.1**		mg/L	0.50	0.02	1	2/23/10	2/25/10 12:58
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:31
Vanadium, Total	6020	**4.1**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:31
Zinc, Total	6020	**9**	I	µg/L	10	3	1	2/23/10	2/24/10 16:31

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB20S
Lab Code: J1000787-023

Service Request: J1000787
Date Collected: 2/17/10 1045
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:35
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:35
Barium, Total	6020	**13.2**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:35
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:35
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:35
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:35
Copper, Total	6020	**1.8**	I	µg/L	2.0	0.5	1	2/23/10	2/24/10 16:35
Iron, Total	6010B	**107**		µg/L	50	4	1	2/23/10	2/25/10 13:03
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:35
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:12
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:35
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:35
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:35
Sodium, Total	6010B	**3.99**		mg/L	0.50	0.02	1	2/23/10	2/25/10 13:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:35
Vanadium, Total	6020	**2.9**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:35
Zinc, Total	6020	**5**	I	µg/L	10	3	1	2/23/10	2/24/10 16:35

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB11I(R)
Lab Code: J1000787-024

Service Request: J1000787
Date Collected: 2/17/10 1117
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:40
Arsenic, Total	6020	**0.25**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:40
Barium, Total	6020	**38.6**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:40
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:40
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:40
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:40
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:40
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/24/10 16:40
Iron, Total	6010B	**457**		µg/L	50	4	1	2/23/10	2/25/10 13:06
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:40
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:13
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:40
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:40
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:40
Sodium, Total	6010B	**3.36**		mg/L	0.50	0.02	1	2/23/10	2/25/10 13:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:40
Vanadium, Total	6020	**2.2**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:40
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/24/10 16:40

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1145
Sample Matrix:	Water	**Date Received:**	2/17/10
Sample Name:	MWB11S		
Lab Code:	J1000787-025	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:45
Arsenic, Total	6020	**0.51**		µg/L	0.50	0.14	1	2/23/10	2/24/10 16:45
Barium, Total	6020	**65.4**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:45
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:45
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:45
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:45
Cobalt, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:45
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/24/10 16:45
Iron, Total	6010B	**1880**		µg/L	50	4	1	2/23/10	2/25/10 13:09
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:45
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:15
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:45
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:45
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:45
Sodium, Total	6010B	**12.3**		mg/L	0.50	0.02	1	2/23/10	2/25/10 13:09
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:45
Vanadium, Total	6020	**2.7**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:45
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/24/10 16:45

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB21S
Lab Code: J1000787-026

Service Request: J1000787
Date Collected: 2/17/10 1213
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:50
Arsenic, Total	6020	**0.36**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:50
Barium, Total	6020	**10.4**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:50
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:50
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:50
Chromium, Total	6020	**2.5**		µg/L	2.0	0.6	1	2/23/10	2/24/10 16:50
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:50
Copper, Total	6020	**2.8**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:50
Iron, Total	6010B	**298**		µg/L	50	4	1	2/23/10	2/25/10 13:13
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:50
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:16
Nickel, Total	6020	**1.6**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:50
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:50
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:50
Sodium, Total	6010B	**2.12**		mg/L	0.50	0.02	1	2/23/10	2/25/10 13:12
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:50
Vanadium, Total	6020	**2.9**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:50
Zinc, Total	6020	**14**		µg/L	10	3	1	2/23/10	2/24/10 16:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: DUP03
Lab Code: J1000787-027

Service Request: J1000787
Date Collected: 2/17/10 1213
Date Received: 2/17/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:55
Arsenic, Total	6020	**0.39**	I	µg/L	0.50	0.14	1	2/23/10	2/24/10 16:55
Barium, Total	6020	**10.1**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:55
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:55
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 16:55
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	2/23/10	2/24/10 16:55
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 16:55
Copper, Total	6020	**2.5**		µg/L	2.0	0.5	1	2/23/10	2/24/10 16:55
Iron, Total	6010B	**286**		µg/L	50	4	1	2/23/10	2/25/10 13:16
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 16:55
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 18:18
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	2/23/10	2/24/10 16:55
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 16:55
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 16:55
Sodium, Total	6010B	**2.16**		mg/L	0.50	0.02	1	2/23/10	2/25/10 13:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 16:55
Vanadium, Total	6020	**2.9**	I	µg/L	5.0	1.2	1	2/23/10	2/24/10 16:55
Zinc, Total	6020	**11**		µg/L	10	3	1	2/23/10	2/24/10 16:55

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: J1000787-MB1

Service Request: J1000787
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 14:50
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/23/10	2/24/10 12:16
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/24/10 14:50
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 14:50
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/24/10 14:50
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/23/10	2/24/10 12:16
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/24/10 14:50
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/24/10 14:50
Iron, Total	6010B	ND	U	µg/L	50	4	1	2/23/10	2/25/10 11:07
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/24/10 14:50
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 17:37
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/24/10 14:50
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/24/10 14:50
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/24/10 14:50
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	2/23/10	2/25/10 11:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/24/10 14:50
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/24/10 14:50
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/24/10 14:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1000787-MB2	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:26
Arsenic, Total	6020	**0.26**	I	µg/L	0.50	0.14	1	2/23/10	2/25/10 16:26
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:26
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:26
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/23/10	2/25/10 16:26
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/23/10	2/25/10 16:26
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/23/10	2/25/10 16:26
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/23/10	2/25/10 16:26
Iron, Total	6010B	ND	U	µg/L	50	4	1	2/23/10	2/25/10 12:44
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/23/10	2/25/10 16:26
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/24/10	2/25/10 14:46
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	2/23/10	2/25/10 16:26
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/23/10	2/25/10 16:26
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/23/10	2/25/10 16:26
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	2/23/10	2/25/10 12:43
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/23/10	2/25/10 16:26
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/23/10	2/25/10 16:26
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/23/10	2/25/10 16:26

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB17I
Lab Code : J1000787-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	4.9	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 18:23	24	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 18:23	135.87	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 00:48	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 18:23	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 18:23	4.75	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	18	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 18:23	19.0	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 18:23	2.9	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB17D
Lab Code : J1000787-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	0.018	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 17:54	43	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 17:54	132.12	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 02:18	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 17:54	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 17:54	5.26	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	30	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 17:54	19.8	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 17:54	1.5	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB3I
Lab Code : J1000787-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 17:22	32	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 17:22	139.46	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 02:33	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 17:22	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 17:22	4.54	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	14	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 17:22	18.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 17:22	2.4	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB3S
Lab Code : J1000787-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 16:53	38	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 16:53	146.20	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 02:48	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 16:53	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 16:53	4.49	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	22	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 16:53	16.5	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 16:53	3.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB31D
Lab Code : J1000787-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	0.083	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	5.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 16:23	297	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 16:23	139.42	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 03:03	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 16:23	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 16:23	6.76	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1.3	02/23/10 17:00	190	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 16:23	19.8	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 16:23	3.4	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB2S
Lab Code : J1000787-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	4.9	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 15:50	40	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 15:50	139.64	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 03:18	0.20	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 15:50	0.7	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 15:50	4.26	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	43	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 15:50	16.4	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 15:50	16.6	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB2I
Lab Code : J1000787-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	8.1	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 15:19	31	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 15:19	137.91	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 03:33	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 15:19	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 15:19	4.60	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	38	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 15:19	18.5	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 15:19	2.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : DUP01
Lab Code : J1000787-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	8.1	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 15:19	31	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 15:19	137.91	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 03:48	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 15:19	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 15:19	4.60	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	35	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 15:19	18.5	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 15:19	2.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB29S
Lab Code : J1000787-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	12	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 14:49	57	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 14:49	131.46	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 04:03	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 14:49	0.7	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 14:49	4.54	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	51	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 14:49	15.5	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 14:49	2.4	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB29I
Lab Code : J1000787-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.028	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.0	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 14:19	29	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 14:19	134.04	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 04:18	0.19	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 14:19	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 14:19	4.93	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	33	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 14:19	18.6	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 14:19	17.3	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB29D
Lab Code : J1000787-011
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.042	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.6	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 13:48	50	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 13:48	134.00	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 04:33	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 13:48	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 13:48	5.39	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	45	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 13:48	18.0	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 13:48	1.2	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB27S
Lab Code : J1000787-012
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	12	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 13:13	110	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 13:13	122.48	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 06:03	5.7	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 13:13	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 13:13	4.53	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	88	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 13:13	16.8	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 13:13	9.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB27I
Lab Code : J1000787-013
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.039	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	5.5	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 12:42	42	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 12:42	12.71	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 06:18	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 12:42	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 12:42	5.30	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	49	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 12:42	19.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 12:42	7.9	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB27D
Lab Code : J1000787-014
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.030	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	6.0	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/16/10 12:09	67	
Groundwater Elevation	Foot	NA	1	1	1	02/16/10 12:09	123.58	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 06:33	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/16/10 12:09	0.3	
pH (Field)	pH UNITS	150.1	-	-	1	02/16/10 12:09	5.56	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	59	
Temperature (Field)	DEG C	170.1	-	-	1	02/16/10 12:09	18.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/16/10 12:09	1.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB17S
Lab Code : J1000787-015
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	7.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 07:05	73	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 07:05	132.58	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 06:48	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 07:05	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 07:05	5.20	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	75	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 07:05	16.5	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 07:05	15.9	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB19D
Lab Code : J1000787-016
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.055	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	4.5	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 07:39	292	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 07:39	121.83	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 07:03	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 07:39	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 07:39	7.05	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	190	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 07:39	18.3	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 07:39	6.8	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB19I
Lab Code : J1000787-017
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.024	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	5.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 08:12	28	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 08:12	121.46	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 07:18	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 08:12	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 08:12	4.76	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	36	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 08:12	17.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 08:12	4.7	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB19S
Lab Code : J1000787-018
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.57	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	19	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 08:42	148	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 08:42	121.35	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 07:32	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 08:42	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 08:42	4.88	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	130	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 08:42	16.4	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 08:42	9.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : DUP02
Lab Code : J1000787-019
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.60	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	19	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 08:42	148	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 08:42	121.35	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 07:47	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 08:42	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 08:42	4.88	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	120	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 08:42	16.4	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 08:42	9.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB7D
Lab Code : J1000787-020
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.094	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	4.1	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 09:19	277	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 09:19	120.76	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 08:47	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 09:19	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 09:19	7.01	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	190	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 09:19	17.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 09:19	0.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB7I
Lab Code : J1000787-021
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 09:51	32	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 09:51	118.60	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 09:47	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 09:51	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 09:51	5.03	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	50	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 09:51	20.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 09:51	18.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB7S
Lab Code : J1000787-022
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.55	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	34	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 10:17	178	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 10:17	115.98	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 10:32	0.28	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 10:17	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 10:17	4.91	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1.3	02/24/10 16:50	73	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 10:17	17.0	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 10:17	14.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB20S
Lab Code : J1000787-023
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.25	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	7.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 10:44	64	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 10:44	114.16	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 10:47	0.39	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 10:44	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 10:44	4.12	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	55	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 10:44	14.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 10:44	13.3	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB11I(R)
Lab Code : J1000787-024
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	6.0	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 11:16	29	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 11:16	109.85	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 11:02	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 11:16	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 11:16	4.94	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	26	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 11:16	20.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 11:16	12.9	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB11S
Lab Code : J1000787-025
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	0.16	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	22	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 11:44	137	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 11:44	110.07	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 12:02	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 11:44	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 11:44	3.99	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	74	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 11:44	17.6	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 11:44	1.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : MWB21S
Lab Code : J1000787-026
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	3.0	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 12:12	129	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 12:12	112.90	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 12:17	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 12:12	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 12:12	5.50	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	150	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 12:12	15.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 12:12	3.2	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10

Inorganic Parameters

Sample Name : DUP03
Lab Code : J1000787-027
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.020	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	3.0	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 12:12	129	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 12:12	112.90	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 12:32	0.17	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 12:12	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 12:12	5.50	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	91	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 12:12	15.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 12:12	3.2	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1000787-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 14:32	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 15:01	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 00:04	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 09:02	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 00:04	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 09:02	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/23/10 17:00	U	

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MWB17I	J1000787-001	100	92	99	104
MWB17D	J1000787-002	99	93	100	99
MWB3I	J1000787-003	101	90	99	99
MWB3S	J1000787-004	99	91	100	101
MWB31D	J1000787-005	101	94	99	104
MWB2S	J1000787-006	104	93	99	107
MWB2I	J1000787-007	93	91	97	105
DUP01	J1000787-008	99	93	99	101
MWB29S	J1000787-009	103	95	101	99
MWB29I	J1000787-010	104	92	103	104
MWB29D	J1000787-011	98	91	97	100
MWB27S	J1000787-012	98	93	101	102
MWB27I	J1000787-013	101	93	102	106
MWB27D	J1000787-014	96	92	93	99
MWB17S	J1000787-015	98	89	99	113
MWB19D	J1000787-016	101	92	97	107
MWB19I	J1000787-017	100	89	97	99
MWB19S	J1000787-018	102	92	99	98
DUP02	J1000787-019	105	90	101	102
MWB7D	J1000787-020	105	106	102	106
MWB7I	J1000787-021	84	94	85	100
MWB7S	J1000787-022	84	94	87	98
MWB20S	J1000787-023	85	94	86	100
MWB11I(R)	J1000787-024	80	97	83	97
MWB11S	J1000787-025	80	91	83	92
MWB21S	J1000787-026	82	91	84	96
DUP03	J1000787-027	103	107	102	106
Trip Blank	J1000787-028	105	108	101	106
Method Blank	JWG1000779-4	84	94	86	99
Method Blank	JWG1000828-4	101	109	102	109
Method Blank	JWG1000830-4	101	95	99	105
DUP02MS	JWG1000830-1	104	94	98	103
DUP02DMS	JWG1000830-2	96	96	99	102
Lab Control Sample	JWG1000779-3	84	103	84	94

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
Lab Control Sample	JWG1000828-3	101	107	103	107
Lab Control Sample	JWG1000830-3	98	100	100	99

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/26/2010
Date Analyzed: 02/26/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP02
Lab Code: J1000787-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1000830

Analyte Name	Sample Result	DUP02MS JWG1000830-1 Matrix Spike Result	Matrix Spike Expected	Matrix Spike %Rec	DUP02DMS JWG1000830-2 Duplicate Matrix Spike Result	Duplicate Matrix Spike Expected	Duplicate Matrix Spike %Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	ND	21.2	20.0	106	20.4	20.0	102	73-139	4	30
Vinyl Chloride	ND	22.0	20.0	110	21.3	20.0	106	78-141	3	30
Bromomethane	ND	10.7	20.0	54 *	12.3	20.0	62 *	78-129	14	30
Chloroethane	ND	27.3	20.0	137 *	25.0	20.0	125	76-129	9	30
Trichlorofluoromethane	ND	22.7	20.0	114	23.3	20.0	116	81-133	3	30
1,1-Dichloroethene	ND	22.5	20.0	112	23.1	20.0	115	79-133	3	30
Acetone	ND	109	100	109	101	100	101	56-139	7	30
Iodomethane (Methyl Iodide)	ND	98.5	100	98	107	100	107	74-134	8	30
Carbon Disulfide	ND	116	100	116	110	100	110	71-146	5	30
Methylene Chloride	ND	21.4	20.0	107	20.7	20.0	103	75-123	3	30
trans-1,2-Dichloroethene	ND	21.5	20.0	107	20.3	20.0	102	76-125	5	30
Acrylonitrile	ND	105	100	105	95.3	100	95	68-131	10	30
1,1-Dichloroethane	ND	20.9	20.0	105	20.1	20.0	101	78-125	4	30
Vinyl Acetate	ND	84.1	100	84	80.7	100	81	43-163	4	30
cis-1,2-Dichloroethene	ND	20.8	20.0	104	19.3	20.0	96	75-127	8	30
2-Butanone (MEK)	ND	99.5	100	100	95.8	100	96	63-134	4	30
Bromochloromethane	ND	20.3	20.0	102	20.8	20.0	104	80-124	2	30
Chloroform	ND	19.9	20.0	99	19.7	20.0	98	81-124	1	30
1,1,1-Trichloroethane (TCA)	ND	20.4	20.0	102	20.7	20.0	104	76-130	1	30
Carbon Tetrachloride	ND	21.2	20.0	106	20.3	20.0	102	76-131	5	30
Benzene	ND	21.0	20.0	105	20.2	20.0	101	78-123	4	30
1,2-Dichloroethane (EDC)	ND	19.6	20.0	98	18.2	20.0	91	74-126	8	30
Trichloroethene (TCE)	ND	21.3	20.0	106	20.6	20.0	103	77-128	3	30
1,2-Dichloropropane	ND	20.8	20.0	104	20.6	20.0	103	77-122	1	30
Dibromomethane	ND	19.7	20.0	98	20.3	20.0	102	78-124	3	30
Bromodichloromethane	ND	19.9	20.0	100	20.1	20.0	100	79-125	1	30
cis-1,3-Dichloropropene	ND	20.0	20.0	100	19.5	20.0	98	77-117	2	30
4-Methyl-2-pentanone (MIBK)	ND	105	100	105	103	100	103	65-138	1	30
Toluene	ND	21.3	20.0	106	21.1	20.0	105	86-119	1	30
trans-1,3-Dichloropropene	ND	19.7	20.0	99	19.3	20.0	97	75-120	2	30
1,1,2-Trichloroethane	ND	20.9	20.0	105	19.6	20.0	98	77-124	7	30
Tetrachloroethene (PCE)	ND	20.5	20.0	102	20.3	20.0	101	79-123	1	30
2-Hexanone	ND	102	100	102	100	100	100	63-142	1	30
Dibromochloromethane	ND	20.8	20.0	104	20.8	20.0	104	78-124	0	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/26/2010
Date Analyzed: 02/26/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP02
Lab Code: J1000787-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1000830

Analyte Name	Sample Result	DUP02MS JWG1000830-1 Matrix Spike			DUP02DMS JWG1000830-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	20.7	20.0	104	19.8	20.0	99	81-119	4	30
Chlorobenzene	ND	21.2	20.0	106	21.3	20.0	106	81-120	0	30
1,1,1,2-Tetrachloroethane	ND	20.5	20.0	102	20.2	20.0	101	82-118	2	30
Ethylbenzene	ND	21.6	20.0	108	22.0	20.0	110	87-122	2	30
m,p-Xylenes	ND	44.1	40.0	110	41.5	40.0	104	82-120	6	30
o-Xylene	ND	20.8	20.0	104	21.0	20.0	105	85-119	1	30
Styrene	ND	19.7	20.0	98	20.7	20.0	103	84-126	5	30
Bromoform	ND	20.2	20.0	101	19.3	20.0	97	70-129	4	30
1,1,2,2-Tetrachloroethane	ND	21.6	20.0	108	21.0	20.0	105	72-127	3	30
1,2,3-Trichloropropane	ND	21.6	20.0	108	21.5	20.0	108	76-123	0	30
1,4-Dichlorobenzene	ND	18.2	20.0	91	19.8	20.0	99	75-115	8	30
trans-1,4-Dichloro-2-butene	ND	13.3	20.0	67	13.7	20.0	69	22-135	3	30
1,2-Dichlorobenzene	ND	19.8	20.0	99	21.6	20.0	108	77-116	9	30
1,2-Dibromo-3-chloropropane (DBCP	ND	14.7	20.0	74	19.9	20.0	99	54-120	30	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/22/2010
Date Analyzed: 02/22/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000779

Analyte Name	Lab Control Sample JWG1000779-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	19.7	20.0	99	67-135
Vinyl Chloride	20.3	20.0	101	78-132
Bromomethane	21.4	20.0	107	79-130
Chloroethane	21.3	20.0	107	74-126
Trichlorofluoromethane	19.5	20.0	97	74-134
1,1-Dichloroethene	19.5	20.0	97	78-130
Acetone	114	100	114	67-133
Iodomethane (Methyl Iodide)	120	100	120	68-134
Carbon Disulfide	112	100	112	76-138
Methylene Chloride	19.8	20.0	99	72-124
trans-1,2-Dichloroethene	16.9	20.0	84	77-124
Acrylonitrile	91.1	100	91	77-127
1,1-Dichloroethane	18.0	20.0	90	80-128
Vinyl Acetate	98.2	100	98	61-148
cis-1,2-Dichloroethene	19.1	20.0	96	80-126
2-Butanone (MEK)	96.2	100	96	73-127
Bromochloromethane	19.3	20.0	96	79-129
Chloroform	18.1	20.0	91	83-124
1,1,1-Trichloroethane (TCA)	19.1	20.0	96	79-124
Carbon Tetrachloride	18.5	20.0	93	81-125
Benzene	18.1	20.0	91	79-119
1,2-Dichloroethane (EDC)	19.2	20.0	96	80-124
Trichloroethene (TCE)	18.3	20.0	92	76-124
1,2-Dichloropropane	18.5	20.0	93	79-123
Dibromomethane	19.6	20.0	98	83-123
Bromodichloromethane	18.9	20.0	94	81-123
cis-1,3-Dichloropropene	21.2	20.0	106	86-123
4-Methyl-2-pentanone (MIBK)	106	100	106	72-136
Toluene	20.4	20.0	102	86-117
trans-1,3-Dichloropropene	21.5	20.0	108	83-124
1,1,2-Trichloroethane	21.8	20.0	109	86-114
Tetrachloroethene (PCE)	22.2	20.0	111	80-121
2-Hexanone	105	100	105	71-138
Dibromochloromethane	22.4	20.0	112	82-121
1,2-Dibromoethane (EDB)	21.5	20.0	107	88-117
Chlorobenzene	20.9	20.0	105	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/22/2010
Date Analyzed: 02/22/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000779

Analyte Name	Lab Control Sample JWG1000779-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	22.0	20.0	110	85-117
Ethylbenzene	20.9	20.0	105	90-118
m,p-Xylenes	42.2	40.0	105	86-121
o-Xylene	21.0	20.0	105	89-119
Styrene	21.6	20.0	108	89-122
Bromoform	22.2	20.0	111	68-129
1,1,2,2-Tetrachloroethane	22.6	20.0	113	83-120
1,2,3-Trichloropropane	21.1	20.0	105	83-123
1,4-Dichlorobenzene	21.1	20.0	105	83-113
trans-1,4-Dichloro-2-butene	24.0	20.0	120	53-143
1,2-Dichlorobenzene	21.1	20.0	106	84-115
1,2-Dibromo-3-chloropropane (DBCP	23.3	20.0	117	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/25/2010
Date Analyzed: 02/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000828

	Lab Control Sample JWG1000828-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	18.9	20.0	95	67-135
Vinyl Chloride	22.5	20.0	112	78-132
Bromomethane	18.8	20.0	94	79-130
Chloroethane	18.6	20.0	93	74-126
Trichlorofluoromethane	18.3	20.0	91	74-134
1,1-Dichloroethene	20.1	20.0	101	78-130
Acetone	85.9	100	86	67-133
Iodomethane (Methyl Iodide)	95.1	100	95	68-134
Carbon Disulfide	96.4	100	96	76-138
Methylene Chloride	19.5	20.0	98	72-124
trans-1,2-Dichloroethene	19.8	20.0	99	77-124
Acrylonitrile	101	100	101	77-127
1,1-Dichloroethane	19.0	20.0	95	80-128
Vinyl Acetate	108	100	108	61-148
cis-1,2-Dichloroethene	19.4	20.0	97	80-126
2-Butanone (MEK)	94.5	100	94	73-127
Bromochloromethane	19.8	20.0	99	79-129
Chloroform	19.1	20.0	96	83-124
1,1,1-Trichloroethane (TCA)	19.4	20.0	97	79-124
Carbon Tetrachloride	19.4	20.0	97	81-125
Benzene	19.2	20.0	96	79-119
1,2-Dichloroethane (EDC)	19.4	20.0	97	80-124
Trichloroethene (TCE)	19.2	20.0	96	76-124
1,2-Dichloropropane	19.5	20.0	98	79-123
Dibromomethane	18.9	20.0	94	83-123
Bromodichloromethane	19.5	20.0	97	81-123
cis-1,3-Dichloropropene	20.0	20.0	100	86-123
4-Methyl-2-pentanone (MIBK)	100	100	100	72-136
Toluene	20.1	20.0	100	86-117
trans-1,3-Dichloropropene	20.7	20.0	104	83-124
1,1,2-Trichloroethane	20.1	20.0	101	86-114
Tetrachloroethene (PCE)	19.3	20.0	96	80-121
2-Hexanone	98.2	100	98	71-138
Dibromochloromethane	19.7	20.0	98	82-121
1,2-Dibromoethane (EDB)	19.6	20.0	98	88-117
Chlorobenzene	19.4	20.0	97	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/25/2010
Date Analyzed: 02/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000828

	Lab Control Sample JWG1000828-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.3	20.0	97	85-117
Ethylbenzene	20.3	20.0	101	90-118
m,p-Xylenes	39.8	40.0	99	86-121
o-Xylene	20.5	20.0	103	89-119
Styrene	20.0	20.0	100	89-122
Bromoform	17.5	20.0	88	68-129
1,1,2,2-Tetrachloroethane	20.2	20.0	101	83-120
1,2,3-Trichloropropane	19.7	20.0	98	83-123
1,4-Dichlorobenzene	18.6	20.0	93	83-113
trans-1,4-Dichloro-2-butene	20.5	20.0	102	53-143
1,2-Dichlorobenzene	19.2	20.0	96	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.4	20.0	92	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/25/2010
Date Analyzed: 02/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000830

Analyte Name	Lab Control Sample JWG1000830-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	21.6	20.0	108	67-135
Vinyl Chloride	20.2	20.0	101	78-132
Bromomethane	17.6	20.0	88	79-130
Chloroethane	24.9	20.0	125	74-126
Trichlorofluoromethane	20.5	20.0	102	74-134
1,1-Dichloroethene	21.2	20.0	106	78-130
Acetone	94.1	100	94	67-133
Iodomethane (Methyl Iodide)	97.2	100	97	68-134
Carbon Disulfide	112	100	112	76-138
Methylene Chloride	19.9	20.0	100	72-124
trans-1,2-Dichloroethene	20.5	20.0	103	77-124
Acrylonitrile	99.7	100	100	77-127
1,1-Dichloroethane	19.7	20.0	98	80-128
Vinyl Acetate	100	100	100	61-148
cis-1,2-Dichloroethene	19.8	20.0	99	80-126
2-Butanone (MEK)	90.7	100	91	73-127
Bromochloromethane	19.4	20.0	97	79-129
Chloroform	19.8	20.0	99	83-124
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	79-124
Carbon Tetrachloride	20.5	20.0	103	81-125
Benzene	19.6	20.0	98	79-119
1,2-Dichloroethane (EDC)	19.1	20.0	96	80-124
Trichloroethene (TCE)	20.2	20.0	101	76-124
1,2-Dichloropropane	20.8	20.0	104	79-123
Dibromomethane	19.7	20.0	98	83-123
Bromodichloromethane	20.1	20.0	101	81-123
cis-1,3-Dichloropropene	19.6	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	96.3	100	96	72-136
Toluene	19.8	20.0	99	86-117
trans-1,3-Dichloropropene	18.6	20.0	93	83-124
1,1,2-Trichloroethane	18.4	20.0	92	86-114
Tetrachloroethene (PCE)	20.7	20.0	103	80-121
2-Hexanone	101	100	101	71-138
Dibromochloromethane	20.2	20.0	101	82-121
1,2-Dibromoethane (EDB)	19.4	20.0	97	88-117
Chlorobenzene	20.3	20.0	102	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/25/2010
Date Analyzed: 02/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000830

Analyte Name	Lab Control Sample JWG1000830-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.1	20.0	100	85-117
Ethylbenzene	19.9	20.0	99	90-118
m,p-Xylenes	42.3	40.0	106	86-121
o-Xylene	19.7	20.0	99	89-119
Styrene	19.8	20.0	99	89-122
Bromoform	19.5	20.0	98	68-129
1,1,2,2-Tetrachloroethane	18.4	20.0	92	83-120
1,2,3-Trichloropropane	20.3	20.0	102	83-123
1,4-Dichlorobenzene	19.9	20.0	99	83-113
trans-1,4-Dichloro-2-butene	15.0	20.0	75	53-143
1,2-Dichlorobenzene	20.9	20.0	105	84-115
1,2-Dibromo-3-chloropropane (DBCP	19.5	20.0	98	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MWB17I	J1000787-001	92
MWB17D	J1000787-002	95
MWB3I	J1000787-003	94
MWB3S	J1000787-004	93
MWB31D	J1000787-005	83
MWB2S	J1000787-006	96
MWB2I	J1000787-007	103
DUP01	J1000787-008	93
MWB29S	J1000787-009	94
MWB29I	J1000787-010	94
MWB29D	J1000787-011	99
MWB27S	J1000787-012	101
MWB27I	J1000787-013	104
MWB27D	J1000787-014	103
MWB17S	J1000787-015	95
MWB19D	J1000787-016	99
MWB19I	J1000787-017	101
MWB19S	J1000787-018	101
DUP02	J1000787-019	102
MWB7D	J1000787-020	97
MWB7I	J1000787-021	103
MWB7S	J1000787-022	107
MWB20S	J1000787-023	108
MWB11I(R)	J1000787-024	106
MWB11S	J1000787-025	110
MWB21S	J1000787-026	107
DUP03	J1000787-027	109
Method Blank	JWG1000753-4	101
Method Blank	JWG1000754-4	93
MWB17IMS	JWG1000753-1	95
MWB17IDMS	JWG1000753-2	99
MWB7IMS	JWG1000754-1	105
MWB7IDMS	JWG1000754-2	104
Lab Control Sample	JWG1000753-3	84

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane	77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
Lab Control Sample	JWG1000754-3	103

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Extracted:**	02/22/2010
Sample Matrix:	Water	**Date Analyzed:**	02/23/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17I	**Units:**	ug/L
Lab Code:	J1000787-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1000753

Analyte Name	Sample Result	MWB17IMS JWG1000753-1 Matrix Spike			MWB17IDMS JWG1000753-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.0151	0.0148	102	0.0157	0.0149	105	65-135	3	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0163	0.0148	110	0.0161	0.0149	108	65-135	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/22/2010
Date Analyzed: 02/23/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB7I
Lab Code: J1000787-021

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low
Extraction Lot: JWG1000754

Analyte Name	Sample Result	MWB7IMS JWG1000754-1 Matrix Spike			MWB7IDMS JWG1000754-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.0169	0.0150	113	0.0176	0.0148	119	65-135	4	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0181	0.0150	121	0.0173	0.0148	117	65-135	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1000787
Project:	Trail Ridge Landfill	**Date Extracted:**	02/22/2010
Sample Matrix:	Water	**Date Analyzed:**	02/23/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1000753

	Lab Control Sample JWG1000753-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0129	0.0143	90	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0143	0.0143	100	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Extracted: 02/22/2010
Date Analyzed: 02/23/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000754

	Lab Control Sample JWG1000754-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0154	0.0143	108	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0159	0.0143	111	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 2/16/10
Date Received: 2/17/10
Date Analyzed: 2/25/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB3S
Lab Code: J1000787-004

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J1000787-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J1000787-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	318	2220	2000	95	2220	2000	95	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: NA
Date Received: NA
Date Analyzed: 2/25/10

Matrix Spike Summary
Inorganic Parameters

Sample Name:
Lab Code: J1000787-004

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J1000787-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J1000787-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total		13.7	10.0	99	13.6	10.0	99	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 2/16/10
Date Received: 2/17/10
Date Analyzed: 2/25/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB31D
Lab Code: J1000787-005

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J1000787-MS2 Result	Amount	% Rec	Duplicate Matrix Spike J1000787-DMS2 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	53.8	50.0	108	54.0	50.0	108	75 - 125	0	20
Arsenic, Total	0.26	50.3	50.0	100	50.0	50.0	100	75 - 125	0	20
Barium, Total	90.1	144	50.0	108	145	50.0	109	75 - 125	0	20
Beryllium, Total	ND	49.6	50.0	99	50.0	50.0	100	75 - 125	1	20
Cadmium, Total	ND	49.9	50.0	100	50.4	50.0	101	75 - 125	1	20
Chromium, Total	1	52.5	50.0	103	51.5	50.0	101	75 - 125	2	20
Cobalt, Total	ND	51.0	50.0	102	50.8	50.0	102	75 - 125	1	20
Copper, Total	ND	49.4	50.0	99	49.7	50.0	99	75 - 125	1	20
Lead, Total	ND	53.0	50.0	106	53.4	50.0	107	75 - 125	1	20
Nickel, Total	1.2	51.2	50.0	100	50.8	50.0	99	75 - 125	1	20
Selenium, Total	ND	47.2	50.0	94	47.6	50.0	95	75 - 125	1	20
Silver, Total	ND	49.7	50.0	99	48.7	50.0	97	75 - 125	2	20
Thallium, Total	ND	52.5	50.0	105	53.1	50.0	106	75 - 125	1	20
Vanadium, Total	ND	51.3	50.0	103	50.8	50.0	102	75 - 125	1	20
Zinc, Total	ND	101	100	101	97.9	100	98	75 - 125	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Collected: 2/16/10
Date Received: 2/17/10
Date Analyzed: 2/25/10

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MWB2S
Lab Code: J1000787-006

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J1000787-MS3 Result	Amount	% Rec	Duplicate Matrix Spike J1000787-DMS3 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	5.11	5.00	102	5.09	5.00	102	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: J1000787
Date Analyzed: 2/22/10 - 2/25/10

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000787-LCS1 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**51.0**	50.0	102	80 - 120
Arsenic, Total	6020	**49.5**	50.0	99	80 - 120
Barium, Total	6020	**51.1**	50.0	102	80 - 120
Beryllium, Total	6020	**47.4**	50.0	95	80 - 120
Cadmium, Total	6020	**48.2**	50.0	96	80 - 120
Chromium, Total	6020	**53.9**	50.0	108	80 - 120
Cobalt, Total	6020	**51.5**	50.0	103	80 - 120
Copper, Total	6020	**50.3**	50.0	101	80 - 120
Iron, Total	6010B	**1990**	2000	100	80 - 120
Lead, Total	6020	**52.9**	50.0	106	80 - 120
Mercury, Total	7470A	**5.11**	5.00	102	80 - 120
Nickel, Total	6020	**50.3**	50.0	101	80 - 120
Selenium, Total	6020	**42.9**	50.0	86	80 - 120
Silver, Total	6020	**51.6**	50.0	103	80 - 120
Thallium, Total	6020	**51.0**	50.0	102	80 - 120
Vanadium, Total	6020	**52.3**	50.0	105	80 - 120
Zinc, Total	6020	**93.6**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Analyzed: 2/25/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000787-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.8**	50.0	102	80 - 120
Arsenic, Total	6020	**48.4**	50.0	97	80 - 120
Barium, Total	6020	**48.7**	50.0	97	80 - 120
Beryllium, Total	6020	**47.0**	50.0	94	80 - 120
Cadmium, Total	6020	**48.1**	50.0	96	80 - 120
Chromium, Total	6020	**49.4**	50.0	99	80 - 120
Cobalt, Total	6020	**50.0**	50.0	100	80 - 120
Copper, Total	6020	**48.8**	50.0	98	80 - 120
Iron, Total	6010B	**2190**	2000	109	80 - 120
Lead, Total	6020	**50.8**	50.0	102	80 - 120
Mercury, Total	7470A	**5.16**	5.00	103	80 - 120
Nickel, Total	6020	**49.7**	50.0	99	80 - 120
Selenium, Total	6020	**44.6**	50.0	89	80 - 120
Silver, Total	6020	**48.6**	50.0	97	80 - 120
Thallium, Total	6020	**51.1**	50.0	102	80 - 120
Vanadium, Total	6020	**49.8**	50.0	100	80 - 120
Zinc, Total	6020	**92.6**	100	93	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Analyzed: 2/25/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000787-LCS1 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.4**	10.0	104	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000787
Date Analyzed: 2/25/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000787-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**9.99**	10.0	100	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB17I
Lab Code : J1000787-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	4.9	4.9	4.9	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB17I
Lab Code : J1000787-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	4.9	112	107	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.99	100	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted :
Date Analyzed : 02/23/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB31D
Lab Code : J1000787-005DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	190	200	195.5	6	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB2I
Lab Code : J1000787-007DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB2I
Lab Code : J1000787-007MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.00	U	0.930	93	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB29D
Lab Code : J1000787-011DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	6.6	6.7	6.65	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/16/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB29D
Lab Code : J1000787-011MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	6.6	114	107	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.99	100	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Duplicate Summary
Inorganic Parameters

Sample Name : DUP02
Lab Code : J1000787-019DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.60	0.60	0.6	<1	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : DUP02
Lab Code : J1000787-019MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.00	0.60	1.57	97	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB7I
Lab Code : J1000787-021DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	5.7	5.8	5.75	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/18/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB7I
Lab Code : J1000787-021MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	5.7	113	107	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.97	99	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Jacksonville, City of	**Service Request :**	J1000787
Project Name :	Trail Ridge Landfill	**Date Collected :**	02/17/10
Project Number :	NA	**Date Received :**	02/17/10
Sample Matrix :	WATER	**Date Extracted :**	
		Date Analyzed :	02/24/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB7S
Lab Code : J1000787-022DUP
Basis : NA
Test Notes :

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	73	87	80	18	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Duplicate Summary
Inorganic Parameters

Sample Name : DUP03
Lab Code : J1000787-027DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.020	0.018	0.019	11	i

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : 02/17/10
Date Received : 02/17/10
Date Extracted : NA
Date Analyzed : 02/22/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : DUP03
Lab Code : J1000787-027MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.00	0.020	0.996	98	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000787
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 02/18-24/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1000787-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.960	96	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.01	101	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.955	96	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.29	106	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Chloride	mg/L (ppm)	300.0	5.0	4.88	98	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.46	109	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.05	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	303	101	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	255	85	85-115	

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: PRO-TECH Service Request #: J1000787

Project: TRAIL RIDGE

Cooler received on 2/17/10 and opened on 2/17/10 by SAO

COURIER: (CAS) UPS FEDEX Client Other _____ Airbill #_____

1	Were custody seals on outside of cooler?	(Yes)	No		
	If yes, how many and where?	#: 1	(on lid)	other	
2	Were seals intact and signature and date correct?	(Yes)	No	N/A	
3	Were custody papers properly filled out?	(Yes)	No	N/A	
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	3.0	4.0	0.8	
5	Thermometer ID	T15			
6	Temperature Blank Present?	(Yes)	No		
7	Were Ice or Ice Packs present	(Ice)	Ice Packs	No	
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A	
9	Type of packing material present	BUBBLE WRAP			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A	
11	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A	
12	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A	
13	Were all of the preserved bottles received with the appropriate preservative?	(Yes)	No	N/A	
	HNO3 pH<2 (H2SO4 pH<2) ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2				
	Preservative additions noted below				
14	Were all samples received within analysis holding times?	(Yes)	No	N/A	
15	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A	
16	Where did the bottles originate?	(CAS)	Client		

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

SR # : J 1000787

Date: 2/17/10

Initials: SJW

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	$Na_2S_2O_3$		HCl	H_2SO_4	HNO_3		H_2SO_4	HNO_3	ZnAc2 NaOH	NaOH		HNO_3		HCl	H_2SO_4	HNO_3			HNO_3		HCl	H_2SO_4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-					-		-
-001	3	3				1	1								1																-001
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # J1000787
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC 200 W FORSYTH ST. STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: HNO3 | H2SO4 | - | HCl | -

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	METALS	NH3	TDS, Cl, NO3	VOC	EDB / DBCP	REMARKS/ ALTERNATE DESCRIPTION
						1	1	1	3	3	
MWB17I		2-16	1824	GW	9	1	1	1	3	3	
MWB17D		2-16	1755	GW	9	1	1	1	3	3	
MWB3I		2-16	1723	GW	9	1	1	1	3	3	
MWB3S		2-16	1654	GW	9	1	1	1	3	3	
MWB31D		2-16	1624	GW	9	1	1	1	3	3	
MWB2S		2-16	1551	GW	9	1	1	1	3	3	
MWB2I		2-16	1520	GW	9	1	1	1	3	3	
DUP01		2-16	1520	GW	9	1	1	1	3	3	
MWB29S		2-16	1450	GW	9	1	1	1	3	3	
MWB29I		2-16	1420	GW	9	1	1	1	3	3	

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature: Robert Nichols	Signature: Robert Nichols	Signature: Sharon Lightsey	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nichols	Printed Name: Robert Nichols	Printed Name: Sharon Lightsey	Printed Name	Printed Name
Firm: PRO TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 2-17-10 1132	Date/Time: 2/17/10 12:32	Date/Time: 2/17/10 1:40	Date/Time: 2-17-10 1340	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # 5100087

CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC 200 W. FORSYTH ST. STE 800 JACKSONVILLE FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Numb[redacted]

PRESERVATIVE: HNO3 | H2SO4 | - | HCl | -

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX		METALS	NH3	TDS, Cl, NO3	VOC	EDB/DBCP										REMARKS/ ALTERNATE DESCRIPTION
						1	1	1	3	3										
MWB29D		2-16	1349	GW	9	1	1	1	3	3										
MWB27S		2-16	1314	GW	9	1	1	1	3	3										
MWB27I		2-16	1243	GW	9	1	1	1	3	3										
MWB27D		2-16	1210	GW	9	1	1	1	3	3										
MWB17S		2-17	0706	GW	9	1	1	1	3	3										
MWB19D		2-17	0740	GW	9	1	1	1	3	3										
MWB19I		2-17	0813	GW	9	1	1	1	3	3										
MWB19S		2-17	0843	GW	9	1	1	1	3	3										
DUP02		2-17	0843	GW	9	1	1	1	3	3										
MWB7D		2-17	0920	GW	9	1	1	1	3	3										

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_X_ STANDARD

REQUESTED FAX DATE

_____

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature: Shawn Lightsey	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Shawn Lightsey	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 2-17-10 1232	Date/Time: 2/17/10 12:32	Date/Time: 2/17/10 1:40	Date/Time: 2-17-10 1340	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE _____ OF _____

SR # J1000987

CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC	
200 W. FORSYTH ST., STE 800	
JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED *(Include Method Number)*

PRESERVATIVE: HNO3 | H2SO4 | - | H4 | -

NUMBER OF CONTAINERS: METALS | NH3 | Cl, TDS, NO3 | VOC | 200.7 DISS

[redacted]

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	METALS	NH3	Cl, TDS, NO3	VOC	200.7 DISS	REMARKS/ ALTERNATE DESCRIPTION
MWB7I		2-17	0952	GW	9	1	1	1	3	3	
MWB7S		2-17	1018	GW	9	1	1	1	3	3	
MWB20S		2-17	1045	GW	9	1	1	1	3	3	
MWB11I(R)		2-17	1117	GW	9	1	1	1	3	3	
MWB11S		2-17	1145	GW	9	1	1	1	3	3	
MWB21S		2-17	1213	GW	9	1	1	1	3	3	
DUP01		2-17	1213	GW	9	1	1	1	3	3	
TRIP		2-17	-	GW	~~9~~	~~1~~	~~1~~	~~1~~	0 ~~3~~		

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ **RUSH** (SURCHARGES APPLY)

X **STANDARD**

REQUESTED FAX DATE

_____

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

_____ I. Results Only

_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

_____ III. Results + QC and Calibration Summaries

_____ IV. Data Validation Report with Raw Data

_____ V. Speicalized Forms / Custom Report

Edata _____ Yes _____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Robert Nichols	Signature: Robert Nichols	Signature: Shawn Lightsey	Signature:	Signature:
Printed Name: DAN ARMOUR	Printed Name: Robert Nichols	Printed Name: Robert Nichols	Printed Name: Shawn Lightsey	Printed Name:	Printed Name:
Firm: PROTECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm:	Firm:
Date/Time: 2-17-10 1232	Date/Time: 2/17/10 12:32	Date/Time: 2/17/10 1:40	Date/Time: 2-17-10 1340	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW-17I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1804	:20	9.4	4.2	04

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1384.3 (ft/msl)	2.56 (ft)	1358.7 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
60.13 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1814	0.21 1st	4.79 1st	23	18.8	1.7	0.6	-163.7	
1817	0.21 2nd	4.76 2nd	23	18.8	1.3	0.6	-159.3	
1820	0.21 3rd	4.75 3rd	23	19.0	2.7	0.5	-159.5	
1823	0.21 4th	4.75 4th	24	19.0	2.9	0.6	-162.3	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/16/10	4.75	24	19.0	2.9	0.6	-162.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR — Odor: ____ — Color: None — Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 — Outlook: Clear 50°F — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 60.13 - 2.56 = 57.57 x 0.163 = 9.38 gallon

FLOW: 72 x 4 = 288 ÷ 60 = 4.8 ∴ 0.208 gpm

ACTUAL: 20 ÷ 4.8 = 4.17 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	Dan Armour		Pro-Tech
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: ____ Sample Point: MWB17D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1733	12	19.7	5.1	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Type: ~ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1385.2 (ft/msl)	6.40 (ft)	1321.2 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
127.32 (ft)	____ (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
17:45	0.23 1st	5.30 1st	43 1st	19.8	1.6	0.5 -	160.6	
17:48	0.23 2nd	5.28 2nd	43 2nd	19.9	2.1	0.5 -	161.5	
17:51	0.23 3rd	5.27 3rd	43 3rd	19.8	1.3	0.5 -	162.6	
17:54	0.23 4th	5.26 4th	43 4th	19.8	1.5	0.4 -	163.5	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/16/10	5.26	43	19.8	1.5	0.4 -	163.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Clear, 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 127.32 - 6.40 = 120.92 x 0.163 = 19.71 gallon

FLOW: 65 x 4 = 260 ÷ 60 = 4.33 ∴ 0.231 gpm

ACTUAL: 22 ÷ 4.33 = 5.08 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW33I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	17:03	2:06	8.1	4.2	0.5

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: -

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 1518.6 (ft/msl)

Depth to Water (DTW) (from TOC): 12.40 (ft)

Groundwater Elevation (site datum, from TOC): 1394.6 (ft/msl)

Total Well Depth (from TOC): 62.00 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
17:12	0.21 1st	4.57 1st	31	18.2	1.6	0.6	116.0	
17:16	0.21 2nd	4.53 2nd	32	18.2	2.4	0.6	117.5	
17:19	0.21 3rd	4.52 3rd	31	18.2	2.6	0.6	118.7	
17:22	0.21 4th	4.54 4th	32	18.2	2.4	0.6	118.9	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/16/10	4.54	32	18.2	2.4	0.6	118.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 50's°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 62.00 - 12.40 = 49.60 x 0.163 = 8.08 gallon

FLOW: 71 x 4 = 284 ÷ 60 = 4.73 ∴ 0.211 gpm

ACTUAL: 20 ÷ 4.73 = 4.23 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: | | | | |

Sample Point: MW35 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1635	:19	19	3.2	17

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: -

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: _____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1543.8 (ft/msl)	8.18 (ft)	1462.0 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.00 (ft)	_____ (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ~~5pm~~	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1644	0.17 1st	4.49 1st	37	16.5	4.1	0.5	1059	
1647	0.17 2nd	4.49 2nd	37	16.5	3.4	0.6	1060	
1650	0.17 3rd	4.49 3rd	37	16.5	3.5	0.5	1064	
1653	0.17 4th	4.49 4th	38	16.5	3.1	0.5	1072	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/16/10	4.49	38	16.5	3.1	0.5	1072	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Clear 55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 8.18 = 11.82 x 0.163 = 1.93 gallon

FLOW: 89 x 4 = 356 ÷ 60 = 5.93 ; 0.169 gpm

ACTUAL: 19 ÷ 5.93 = 3.20 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
__/__/__			202

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE
Site No.:
Sample Point: MW B31D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1602	2:22	18.3	5.1	3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Purging Device: C
Sampling Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: -
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
X-Other:
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
156.15 (ft/msl)	16.73 (ft)	139.42 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
129.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
16:14	0.23 1st	6.76 1st	295	19.9	4.6	0.5	79.7	
16:17	0.23 2nd	6.76 2nd	296	19.8	3.7	0.5	81.4	
16:20	0.23 3rd	6.76 3rd	297	19.8	3.3	0.5	80.3	
16:23	0.23 4th	6.76 4th	297	19.8	3.4	0.5	83.1	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/16/10	6.76	297	19.0	3.4	0.5	83.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 129.00 - 16.73 = 112.27 x 0.163 = 18.30
FLOW: 65 x 4 = 260 ÷ 60 = 4.33 ∴ 0.231 gpm
ACTUAL: 22 ÷ 4.33 = 5.08 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B25 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1532	1:19	2.1	3.4	1.6

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1464 (ft/msl)	7.00 (ft)	1396 4 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
15:41	0.18 1st	4.28 1st	39	16.3	15.6	0.7	64	
15:44	0.18 2nd	4.27 2nd	40	16.4	17.2	0.7	102	
15:47	0.18 3rd	4.27 3rd	40	16.4	16.8	0.7	126	
15:50	0.18 4th	4.26 4th	40	16.4	16.6	0.7	131	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/16/10	4.26	40	16.4	16.6	0.7	131	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: SLT. CLOUDY Odor: _____ Color: LT. TAN Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 50's Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 7.00 = 13.00 x 0.163 = 2.12 gallon

FLOW: 85 x 4 = 340 ÷ 60 = 5.67 ∴ 0.176 gpm

ACTUAL: 19 ÷ 5.67 = 3.35 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			204

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW32I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1500	:20	8.8	4.1	05

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1457.3 (ft/msl)	7.82 (ft)	1379.1 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
61.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
15:10	0.2 1st	4.63 1st	31	18.5	1.0	0.6	122.7	
15:13	0.2 2nd	4.61 2nd	30	18.5	0.8	0.7	120.1	
15:16	0.2 3rd	4.61 3rd	31	18.5	0.6	0.6	121.6	
15:19	0.2 4th	4.60 4th	31	18.5	2.1	0.6	121.0	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/16/10	4.60	31	18.5	2.1	0.6	121.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 61.50 - 7.82 = 53.68 x 0.163 = 8.75 gallon

FLOW: 74 x 4 = 296 ÷ 60 = 4.93 = 0.203 gpm

ACTUAL: 20 ÷ 4.93 = 4.06 gallon

COMPLETED DUP #1 @ MW32I

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH 205

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B2 9 5 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1430	:20	2.2	3.4	1.6

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: - — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1382.02 (ft/msl)	6.56 (ft)	1315.46 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
14:40	0.17 1st	4.54 1st	57	15.5	3.5	0.7	155.9	
14:43	0.17 2nd	4.52 2nd	56	15.5	2.9	0.7	157.9	
14:46	0.17 3rd	4.52 3rd	57	15.5	3.8	0.7	157.6	
14:49	0.17 4th	4.54 4th	57	15.5	2.4	0.7	157.2	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
02/16/10	4.54	57	15.5	2.4	0.7	157.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 6.56 = 13.44 x 0.163 = 2.19 gallon

FLOW: 88 x 4 = 352 ÷ 60 = 5.87 ∴ 0.17 gpm

ACTUAL: 20 ÷ 5.87 = 3.41 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN Armour		Pro-Tech
___/___/___			206

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW329I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1359	:21	97	35	04

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
138.08 (ft/msl)	4.04 (ft)	134.04 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
63.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1410	0.17 1st	4.89 1st	30	18.4	177	0.4	163.2	
1413	0.17 2nd	4.96 2nd	29	18.6	18.1	0.4	164.3	
1416	0.17 3rd	4.97 3rd	29	18.6	17.1	0.5	166.3	
1419	0.17 4th	4.93 4th	29	18.6	17.3	0.5	165.3	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/16/10	4.93	29	18.6	17.3	0.5	165.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR → SLT. CLOUDY — Odor: _____ — Color: Very Hazy tint — Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 — Outlook: Clear 50°F — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 63.50 − 4.04 = 59.46 × 0.163 = 9.69 gallon

FLOW: 89 × 4 = 356 ÷ 60 = 5.93 ≈ 0.169 gpm

ACTUAL: 21 ÷ 5.93 = 3.54 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW829D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrsmin)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1328	21	17.3	4.6	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

X-Other:

Filter Type: —

A-In-line Disposable B-Pressure C-Vacuum X-Other ____

Sample Tube Type: A

A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
138.18 (ft/msl)	4.18 (ft)	134.00 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
110.50 (ft)	____ (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:39	0.22 1st	5.38 1st	49	17.8	2.7	0.5	151.1	
13:42	0.22 2nd	5.38 2nd	49	18.0	1.8	0.5	156.7	
13:45	0.22 3rd	5.35 3rd	50	18.1	1.2	0.5	154.3	
13:48	0.22 4th	5.39 4th	50	18.0	1.2	0.5	153.0	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/16/10	5.39	50	18.0	1.2	0.5	153.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: None Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 110.50 - 4.18 = 106.32 x 0.163 = 17.33 gallon

FLOW: 69 x 4 = 276 ÷ 60 = 4.6 ∴ 0.217 gpm

ACTUAL: 21 ÷ 4.6 = 4.57 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			208

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW8275 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1255	:19	1.16	3.7	2.3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 1282.42 (ft/msl)

Depth to Water (DTW) (from TOC): 5.94 (ft)

Groundwater Elevation (site datum, from TOC): 1224.8 (ft/msl)

Total Well Depth (from TOC): 1550 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1304	0.19 gpm 1st	4.56 1st	110 1st	16.9	9.4	0.5	16.3	
1307	0.19 2nd	4.56 2nd	110 2nd	16.9	10.9	0.5	14.3	
1310	0.19 3rd	4.54 3rd	111 3rd	16.8	9.1	0.5	11.9	
1313	0.19 4th	4.53 4th	110 4th	16.8	9.0	0.5	11.4	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/16/10	4.53	110	16.0	9.0	0.5	11.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: FAINT Brown tint Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 50's Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 15.50 - 5.94 = 9.56 x 0.163 = 1.56 gallon

FLOW: 78 x 4 = 312 ÷ 60 = 5.2 ∴ 0.192 gpm

ACTUAL: 19 ÷ 5.2 = 3.65 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO TECH
___/___/___			209

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW827I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1222	2:1	9.4	4.3	0.5

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1286.3 (ft/msl)

Depth to Water (DTW) (from TOC): 4.92 (ft)

Groundwater Elevation (site datum, from TOC): 1237.1 (ft/msl)

Total Well Depth (from TOC): 62.50 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1233	0.2 gpm 1st	5.31 1st	42	19.1	9.7	0.5	-200.3	
1236	0.2 2nd	5.29 2nd	42	19.1	10.1	0.5	-202.8	
1239	0.2 3rd	5.31 3rd	42	19.1	9.3	0.5	-201.4	
1242	0.2 4th	5.30 4th	42	19.1	7.9	0.5	-200.7	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/16/10	5.30	42	19.1	7.9	0.5	-200.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NoSheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 62.50 - 4.92 = 57.58 x 0.163 = 9.39 gallon

FLOW: 74 x 4 = 296 ÷ 60 = 4.93 ∴ 0.203 gpm

ACTUAL: 21 ÷ 4.93 = 4.26 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			

210

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE
Site No.:
Sample Point: MW827D
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/16/10	1140	:30	17.1	6.3	04

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Purging Device: C
Sampling Device: C
X-Other:
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
128.88 (ft/msl)	5.30 (ft)	123.58 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
110.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:00	0.21 1st	5.50 1st	62	17.5	28	0.3	1231	
12:03	0.21 2nd	5.56 2nd	66	18.0	36	0.3	1243	
12:06	0.21 3rd	5.56 3rd	67	18.0	12	0.3	1261	
12:09	0.21 4th	5.56 4th	67	18.1	11	0.3	1263	
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
	5.56	67	18.1	11	0.3	1263	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 110.00 - 5.30 = 104.70 x 0.163 = 17.07 gallon
FLOW: 72 x 4 = 288 ÷ 60 = 4.8 : 0.208 gpm
ACTUAL: 30 ÷ 4.8 = 6.25 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/16/10	DAN ARMOUR		PRO-TECH
___/___/___			211

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MWB175 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	0647	:19	21	34	16

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: -

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1383.1 (ft/msl)	5.73 (ft)	1325.8 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
18.31 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0656	0.18 1st	5.17 1st	73	16.4	17.3	0.6	152	
0659	0.18 2nd	5.18 2nd	72	16.5	14.8	0.6	185	
0702	0.18 3rd	5.18 3rd	73	16.5	15.6	0.6	201	
0705	0.18 4th	5.20 4th	73	16.5	15.9	0.6	213	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
02/17/10	5.20	73	16.5	15.9	0.6	213	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: SLT. CLOUDY Odor: ____ Color: Lt. Brown tint Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 18.31 - 5.73 = 12.58 x 0.163 = 2.05 gallon

FLOW: 85x4 = 340 ÷ 60 = 5.67 ∴ 0.176 gpm

ACTUAL: 19 ÷ 5.67 = 3.35 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOR		PRO TECH
___/___/___			212

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B 19 D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	07:17	2:30	17.8	4.9	3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: _____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1282.3 (ft/msl)	6.40 (ft)	1275.83 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
115.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
07:30	0.21 1st	7.04 1st	293	18.2	6.6	0.4	-146.5	
07:33	0.21 2nd	7.03 2nd	293	18.2	7.1	0.4	-146.3	
07:36	0.21 3rd	7.04 3rd	292	18.2	7.3	0.4	-148.7	
07:39	0.21 4th	7.05 4th	292	18.3	6.8	0.4	-149.8	
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:								
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	7.05	292	18.3	6.8	0.4	-149.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: None Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 115.50 - 6.40 = 109.10 x 0.163 = 17.78 gallon

FLOW: 71 x 4 = 284 ÷ 60 = 4.73 ÷ 0.211 gpm

ACTUAL: 23 ÷ 4.73 = 4.86 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW-B19I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	07:52	:21	8.6	4.3	0.5

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
127.94 (ft/msl)	6.48 (ft)	121.46 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
59.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
08:03	0.21 1st	4.76 1st	27	17.1	4.4	0.5	165.8	
08:06	0.21 2nd	4.78 2nd	28	17.2	4.3	0.5	166.3	
08:09	0.21 3rd	4.75 3rd	28	17.2	4.6	0.5	167.2	
08:12	0.21 4th	4.76 4th	28	17.2	4.7	0.5	167.4	
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:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/17/10	4.76	28	17.2	4.7	0.5	167.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 30's F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 59.00 - 6.48 = 52.52 x 0.163 = 8.56 gallon

FLOW: 73 x 4 = 292 ÷ 60 = 4.87 ∴ 0.205 gpm

ACTUAL: 21 ÷ 4.87 = 4.31 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B 1 9 5 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	0824	:19	2.3	3.4	1.5

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: - — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1273.58 (ft/msl)	6.03 (ft)	1267.55 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0833	0.18 1st	4.89 1st	149 1st	16.4	9.2	0.4	-1865	
0836	0.18 2nd	4.89 2nd	146 2nd	16.4	9.2	0.4	-1875	
0839	0.18 3rd	4.89 3rd	149 3rd	16.4	8.9	0.4	-1890	
0842	0.18 4th	4.88 4th	148 4th	16.4	9.0	0.4	-1894	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	4.88	149	16.4	9.0	0.4	-1894	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 6.03 = 13.97 x 0.163 = 2.28 gallon

FLOW: 84 x 4 = 336 ÷ 60 = 5.6 ∴ 0.179 gpm

ACTUAL: 19 ÷ 5.6 = 3.39 gallon

COMPLETED DUP@2 & MW B195

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW87D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	0856	:24	18.9	5.5	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): 1216.5 (ft/msl)

Depth to Water (DTW) (from TOC): 0.89 (ft)

Groundwater Elevation (site datum, from TOC): 1207.6 (ft/msl)

Total Well Depth (from TOC): 117.00 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:16	0.23 gpm 1st	7.03 1st	277	17.8	0.2	0.4	1624	
09:13	0.23 2nd	7.03 2nd	277	17.9	0.1	0.5	1625	
09:16	0.23 3rd	7.02 3rd	277	17.9	0.1	0.4	1611	
09:19	0.23 4th	7.01 4th	277		0.1	0.4	1610	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	7.01	277	17.9	0.1	0.4	1610	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 117.00 - 0.89 = 116.11 x 0.163 = 18.93 gallon

FLOW: 66 x 4 = 264 ÷ 60 = 4.4 ∴ 0.227 gpm

ACTUAL: 24 ÷ 4.4 = 5.45 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW87I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	0932	:20	10.1	4.1	04

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1215.3 (ft/msl)

Depth to Water (DTW) (from TOC): 2.93 (ft)

Groundwater Elevation (site datum, from TOC): 1186.0 (ft/msl)

Total Well Depth (from TOC): 65.00 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0942	0.21 1st	5.02 1st	32	20.2	17.8	0.4	-181.7	
0945	0.21 2nd	5.06 2nd	32	20.1	19.1	0.4	-179.6	
0948	0.21 3rd	5.04 3rd	32	20.2	17.3	0.4	-179.7	
0951	0.21 4th	5.03 4th	32	20.2	18.0	0.4	-179.4	
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/17/10	5.03	32	20.2	18.0	0.4	-179.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 65.00 - 2.93 = 62.07 x 0.163 = 10.12 gallon

FLOW: 73 x 4 = 292 ÷ 60 = 4.87 = 0.205 gpm

ACTUAL: 20 ÷ 4.87 = 4.11 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
____/____/____			217

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE
Site No.:
Sample Point: MW875 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1001	:17	21	2.9	1.4

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Purging Device: C
Sampling Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1232.9 (ft/msl)	7.31 (ft)	1158.8 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1011	0.17 1st	4.93 1st	180 1st	16.9	14.6	0.4	147	
1014	0.17 2nd	4.92 2nd	179 2nd	16.9	13.8	0.5	143	
1017	0.17 3rd	4.91 3rd	178 3rd	17.0	14.0	0.5	129	
:	4th	4th	4th					
:								
:								
:								
:								
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:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	4.91	178	17.0	14.0	0.5	129	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 7.31 = 12.69 x 0.163 = 2.07 gallon
FLOW: 88 x 4 = 352 ÷ 60 = 5.87 ∴ 0.170 gpm
ACTUAL: 17 ÷ 5.87 = 2.90 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
/ /			218

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B205 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	10:28	:17	2.1	2.9	3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: - — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1210.1 (ft/msl)	6.85 (ft)	1146 (ft/msl)	20.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:38	0.17 1st	4.13 1st	64 1st	14.9 1st	14.6 1st	0.5 1st	404 1st	
10:41	0.17 2nd	4.13 2nd	64 2nd	14.9 2nd	13.1 2nd	0.5 2nd	405 2nd	
10:44	0.17 3rd	4.12 3rd	64 3rd	14.9 3rd	13.3 3rd	0.5 3rd	408 3rd	
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
02/17/10	4.12	64	14.9	13.3	0.5	408	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: _____ Odor: _____ Color: None Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.00 - 6.85 = 13.15 x 0.163 = 2.14 gallon

FLOW: 89 x 4 = 356 ÷ 60 = 5.93 ∴ 0.169 gpm

ACTUAL: 19 ÷ 5.93 = 2.87 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B 1 1 I

Sample ID (R)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1057	:20	.72	4.1	06

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1204.3 (ft/msl)	1058 (ft)	1098.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
5500 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:07	0.2 1st	4.99 1st	29	20.0	12.8	0.7 -	105.5	
11:10	0.2 2nd	4.96 2nd	29	20.1	14.1	0.6 -	108.6	
11:13	0.2 3rd	4.97 3rd	29	20.1	13.8	0.6 -	111.3	
11:16	0.2 4th	4.94 4th	29	20.1	12.9	0.6 -	115.3	
:								
:								
:								
:								
:								
:								

Suggested range for 3 consec. readings or note Permit/State requirements:	+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	4.94	29	20.1	12.9	0.6 -	115.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 55.00 - 10.58 = 44.42 x 0.163 = 7.24 gallon

FLOW: 74 x 4 = 296 ÷ 60 = 4.93 ∴ 0.203 gpm

ACTUAL: 20 ÷ 4.93 = 4.06 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
/ /			220

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE
Site No.:
Sample Point: MW811S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1128	:17	1.4	2.7	1.9

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: –
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1208.1 (ft/msl)	10.74 (ft)	1110.07 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
19.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1138	0.16 1st	4.00 1st	137 1st	17.6	0.2	0.6	124.9	
1141	0.16 2nd	3.99 2nd	137 2nd	17.6	0.5	0.6	126.4	
1144	0.16 3rd	3.99 3rd	137 3rd	17.6	1.1	0.6	127.8	
:	4th	4th						
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	3.99	137	17.6	1.1	0.6	127.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 35-40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 19.50 − 10.74 = 8.76 x 0.163 = 1.43 gallon
FLOW: 93 x 4 = 372 ÷ 60 = 6.2 ∴ 0.16 gpm
ACTUAL: 17 ÷ 6.2 = 2.74 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW8215 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1157	:16	13	25	19

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1228.4 (ft/msl)	9.94 (ft)	1218.90 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
18.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ~~gpm~~	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:06	0.15 1st	5.49 1st	130 1st	15.0	4.1	0.5	138.0	
12:09	0.15 2nd	5.49 2nd	131 2nd	15.2	2.7	0.5	139.9	
12:12	0.15 3rd	5.50 3rd	129 3rd	15.2	3.2	0.5	141.5	
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	5.50	129	15.2	3.2	0.5	141.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 18.00 - 9.94 = 8.06 x 0.163 = 1.31 gallon

FLOW: 97 x 4 = 388 ÷ 60 = 6.47 ∴ 0.155 gpm

ACTUAL: 16 ÷ 6.47 = 2.47 gallon

COMPLETED DUP03 @ MW8215

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
__/__/__			222

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

March 29, 2010

Service Request No: J1000805

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge Landfill

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on February 18, 2010. For your reference, these analyses have been assigned our service request number **J1000805**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1000805
Project:	Trail Ridge Landfill	**Date Received:**	2/18/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Fifteen water samples and one trip blank were received for analysis at Columbia Analytical Services on 2/18/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Initial Calibration Exceptions

The CAS minimum relative response factor criterion was not met for the following analyte in the Initial Calibration (ICAL) 2082: Acetone. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verifies instrument sensitivity was adequate to detect the analyte at the MRL on the day of the analysis. Because the analyte in question was not detected in the associated field samples, the data quality was not significantly affected. No further corrective action was appropriate.

Lab Control Sample Exceptions

The spike recoveries of Carbon Tetrachloride and 1,1,1,2-Tetrachloroethane for Laboratory Control Sample (LCS) JWG1000741-3 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 3/29/10

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for MS/DMS samples were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total and Dissolved Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Approved by _____ **Date** 3/29/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:
Project: Trail Ridge Landfill

Service Request: J1000805

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1000805-001	MWB12D	2/17/10	13:03
J1000805-002	MWB12I	2/17/10	13:35
J1000805-003	MWB12S	2/17/10	14:45
J1000805-004	MWB13I	2/17/10	15:45
J1000805-005	MWB13S	2/17/10	16:45
J1000805-006	MWB22S	2/17/10	15:13
J1000805-007	MWB32D	2/17/10	17:25
J1000805-008	MWB32S	2/17/10	17:53
J1000805-009	MWB33S	2/18/10	08:35
J1000805-010	MWB34S	2/18/10	08:08
J1000805-011	MWB34I	2/18/10	07:35
J1000805-012	MWB34D	2/18/10	07:04
J1000805-013	MWB32I	2/18/10	09:37
J1000805-014	DUP04	2/18/10	07:35
J1000805-015	FB	2/18/10	09:50
J1000805-016	Trip	2/18/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12D
Lab Code: J1000805-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12D
Lab Code: J1000805-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	99	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12I
Lab Code: J1000805-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12I
Lab Code: J1000805-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12S
Lab Code: J1000805-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12S
Lab Code: J1000805-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	101	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13I
Lab Code: J1000805-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13I
Lab Code: J1000805-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	96	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13S
Lab Code: J1000805-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13S
Lab Code: J1000805-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB22S
Lab Code: J1000805-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB22S
Lab Code: J1000805-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	97	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32D
Lab Code: J1000805-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32D
Lab Code: J1000805-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	96	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32S
Lab Code: J1000805-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32S
Lab Code: J1000805-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	97	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB33S
Lab Code: J1000805-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB33S
Lab Code: J1000805-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	96	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34S
Lab Code: J1000805-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34S
Lab Code: J1000805-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34I
Lab Code: J1000805-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34I
Lab Code: J1000805-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	97	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34D
Lab Code: J1000805-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB34D
Lab Code: J1000805-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	100	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32I
Lab Code: J1000805-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32I
Lab Code: J1000805-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	95	82-116	Acceptable
Toluene-d8	102	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP04
Lab Code: J1000805-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP04
Lab Code: J1000805-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	95	71-122	Acceptable
4-Bromofluorobenzene	100	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: FB
Lab Code: J1000805-015

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: FB
Lab Code: J1000805-015

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	101	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip
Lab Code: J1000805-016

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip
Lab Code: J1000805-016

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	99	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000741-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/19/10	02/19/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/19/10	02/19/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/19/10	02/19/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/19/10	02/19/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/19/10	02/19/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/19/10	02/19/10	
Acetone	ND	UJ	50	2.4	6300	1	02/19/10	02/19/10	J(3)
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/19/10	02/19/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/19/10	02/19/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/19/10	02/19/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/19/10	02/19/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/19/10	02/19/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/19/10	02/19/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/19/10	02/19/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/19/10	02/19/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/19/10	02/19/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/19/10	02/19/10	
Chloroform	ND	U	1.0	0.10	70	1	02/19/10	02/19/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/19/10	02/19/10	
Carbon Tetrachloride	ND	UJ	1.0	0.18	3	1	02/19/10	02/19/10	J(3)
Benzene	ND	U	1.0	0.52	1	1	02/19/10	02/19/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/19/10	02/19/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/19/10	02/19/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/19/10	02/19/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/19/10	02/19/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/19/10	02/19/10	
Toluene	ND	U	1.0	0.52	40	1	02/19/10	02/19/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/19/10	02/19/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/19/10	02/19/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/19/10	02/19/10	
2-Hexanone	ND	U	25	0.36	280	1	02/19/10	02/19/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/19/10	02/19/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000741-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/19/10	02/19/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/19/10	02/19/10	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1.3	1	02/19/10	02/19/10	J(3)
Ethylbenzene	ND	U	1.0	0.10	30	1	02/19/10	02/19/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/19/10	02/19/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/19/10	02/19/10	
Styrene	ND	U	1.0	0.051	100	1	02/19/10	02/19/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/19/10	02/19/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/19/10	02/19/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/19/10	02/19/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/19/10	02/19/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/19/10	02/19/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/19/10	02/19/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/19/10	02/19/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	101	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB12D
Lab Code: J1000805-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	111	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB12I	**Units:**	ug/L
Lab Code:	J1000805-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	110	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB12S
Lab Code: J1000805-003

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	115	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB13I
Lab Code: J1000805-004

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	97	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB13S
Lab Code: J1000805-005

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	109	77-150	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB22S
Lab Code: J1000805-006

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	106	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/17/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB32D
Lab Code: J1000805-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	90	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	02/17/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB32S	**Units:**	ug/L
Lab Code:	J1000805-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	99	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB33S
Lab Code: J1000805-009

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0075	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	104	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB34S
Lab Code: J1000805-010

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	94	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	02/18/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB34I	**Units:**	ug/L
Lab Code:	J1000805-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	02/18/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB34D	**Units:**	ug/L
Lab Code:	J1000805-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	100	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB32I
Lab Code: J1000805-013

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	101	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: DUP04
Lab Code: J1000805-014

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	102	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 02/18/2010
Date Received: 02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: FB
Lab Code: J1000805-015

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.022	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.022	0.0061	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	102	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1000755-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB12D
Lab Code: J1000805-001

Service Request: J1000805
Date Collected: 2/17/10 1303
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:42
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:09
Barium, Total	6020	**128**		µg/L	2.0	0.5	1	2/25/10	3/2/10 02:42
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:42
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 02:42
Chromium, Total	6020	**0.9**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 02:42
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 02:42
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 02:42
Iron, Total	6010B	**680**		µg/L	100	10	1	2/26/10	3/1/10 11:06
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:42
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:28
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:42
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 02:42
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 02:42
Sodium, Total	6010B	**5.90**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 02:42
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 02:42
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:09

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1335
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB12I		
Lab Code:	J1000805-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:47
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:13
Barium, Total	6020	**50.5**		µg/L	2.0	0.5	1	2/25/10	3/2/10 02:47
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:47
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 02:47
Chromium, Total	6020	**2.1**		µg/L	2.0	0.6	1	2/25/10	3/2/10 02:47
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 02:47
Copper, Total	6020	**1.0**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 02:47
Iron, Total	6010B	**260**		µg/L	100	10	1	2/26/10	3/1/10 11:09
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:47
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:29
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:47
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 02:47
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 02:47
Sodium, Total	6010B	**3.17**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:09
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 02:47
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 02:47
Zinc, Total	6020	**3**	I	µg/L	10	3	1	2/25/10	3/3/10 12:13

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB12S
Lab Code: J1000805-003

Service Request: J1000805
Date Collected: 2/17/10 1445
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	**0.4**	I	µg/L	2.0	0.3	1	2/25/10	2/26/10 13:49
Antimony, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:16
Arsenic, Dissolved	6020	**0.44**	I	µg/L	0.50	0.14	1	2/25/10	2/26/10 13:49
Arsenic, Total	6020	**0.52**		µg/L	0.50	0.14	1	2/25/10	3/3/10 11:50
Barium, Dissolved	6020	**4.1**		µg/L	2.0	0.5	1	2/25/10	2/26/10 13:49
Barium, Total	6020	**4.6**		µg/L	2.0	0.5	1	2/25/10	3/2/10 02:16
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 13:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:16
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	2/26/10 13:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 02:16
Chromium, Dissolved	6020	**1**	I	µg/L	2.0	0.6	1	2/25/10	2/26/10 13:49
Chromium, Total	6020	**2.2**		µg/L	2.0	0.6	1	2/25/10	3/2/10 02:16
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	2/26/10 13:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 02:16
Copper, Dissolved	6020	**0.6**	I	µg/L	2.0	0.5	1	2/25/10	2/26/10 13:49
Copper, Total	6020	**0.6**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 02:16
Iron, Dissolved	6010B	**20**	I	µg/L	100	10	1	2/25/10	2/25/10 21:10
Iron, Total	6010B	**50**	I	µg/L	100	10	1	2/26/10	3/1/10 11:12
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 13:49
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:16
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:31
Nickel, Dissolved	6020	**0.9**	I	µg/L	2.0	0.3	1	2/25/10	2/26/10 13:49
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:16
Selenium, Dissolved	6020	**8.7**		µg/L	5.0	0.9	1	2/25/10	2/26/10 13:49
Selenium, Total	6020	**7.9**		µg/L	5.0	0.9	1	2/25/10	3/2/10 02:16
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	2/26/10 13:49
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 02:16
Sodium, Dissolved	6010B	**6.05**		mg/L	0.50	0.02	1	2/25/10	2/25/10 21:09
Sodium, Total	6010B	**5.31**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:12
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	2/26/10 13:49
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 02:16
Vanadium, Dissolved	6020	**43.3**		µg/L	5.0	1.2	1	2/25/10	2/26/10 13:49
Vanadium, Total	6020	**42.2**		µg/L	5.0	1.2	1	2/25/10	3/2/10 02:16
Zinc, Dissolved	6020	ND	U	µg/L	10	3	1	2/25/10	2/26/10 13:49
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 11:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1545
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB13I		
Lab Code:	J1000805-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:07
Arsenic, Total	6020	**0.43**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:25
Barium, Total	6020	**32.5**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:07
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:07
Cadmium, Total	6020	**0.23**	I	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:07
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:07
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:07
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:07
Iron, Total	6010B	**290**		µg/L	100	10	1	2/26/10	3/1/10 11:15
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:07
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:32
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:07
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:07
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:07
Sodium, Total	6010B	**3.32**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:14
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:07
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:07
Zinc, Total	6020	**3**	I	µg/L	10	3	1	2/25/10	3/3/10 12:25

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1645
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB13S		
Lab Code:	J1000805-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	**0.6**	I	µg/L	2.0	0.3	1	2/25/10	2/26/10 13:53
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:13
Arsenic, Dissolved	6020	**0.41**	I	µg/L	0.50	0.14	1	2/25/10	2/26/10 13:53
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:29
Barium, Dissolved	6020	**6.0**		µg/L	2.0	0.5	1	2/25/10	2/26/10 13:53
Barium, Total	6020	**6.2**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:13
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 13:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:13
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	2/26/10 13:53
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:13
Chromium, Dissolved	6020	**1.4**	I	µg/L	2.0	0.6	1	2/25/10	2/26/10 13:53
Chromium, Total	6020	**2.0**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:13
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	2/26/10 13:53
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:13
Copper, Dissolved	6020	**1.5**	I	µg/L	2.0	0.5	1	2/25/10	2/26/10 13:53
Copper, Total	6020	**1.2**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:13
Iron, Dissolved	6010B	**40**	I	µg/L	100	10	1	2/25/10	2/25/10 21:30
Iron, Total	6010B	**130**		µg/L	100	10	1	2/26/10	3/1/10 11:17
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 13:53
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:13
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:54
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:34
Nickel, Dissolved	6020	**2.0**		µg/L	2.0	0.3	1	2/25/10	2/26/10 13:53
Nickel, Total	6020	**1.5**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:13
Selenium, Dissolved	6020	**6.8**		µg/L	5.0	0.9	1	2/25/10	2/26/10 13:53
Selenium, Total	6020	**7.9**		µg/L	5.0	0.9	1	2/25/10	3/2/10 03:13
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	2/26/10 13:53
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:13
Sodium, Dissolved	6010B	**19.3**		mg/L	0.50	0.02	1	2/25/10	2/25/10 21:30
Sodium, Total	6010B	**17.6**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:17
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	2/26/10 13:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:13
Vanadium, Dissolved	6020	**42.9**		µg/L	5.0	1.2	1	2/25/10	2/26/10 13:53
Vanadium, Total	6020	**46.5**		µg/L	5.0	1.2	1	2/25/10	3/2/10 03:13
Zinc, Dissolved	6020	**8**	I	µg/L	10	3	1	2/25/10	2/26/10 13:53
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:29

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/17/10 1513
Date Received: 2/18/10

Sample Name: MWB22S
Lab Code: J1000805-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:18
Arsenic, Total	6020	**0.32**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:33
Barium, Total	6020	**3.9**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:18
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:18
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:18
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:18
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:18
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:18
Iron, Total	6010B	**90**	I	µg/L	100	10	1	2/26/10	3/1/10 11:20
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:18
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:35
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:18
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:18
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:18
Sodium, Total	6010B	**7.04**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:18
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:18
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1725
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB32D		
Lab Code:	J1000805-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:23
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:37
Barium, Total	6020	**27.4**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:23
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:23
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:23
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:23
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:23
Copper, Total	6020	**1.3**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:23
Iron, Total	6010B	**430**		µg/L	100	10	1	2/26/10	3/1/10 11:23
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:23
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:37
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:23
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:23
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:23
Sodium, Total	6010B	**4.39**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:23
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:23
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:23
Zinc, Total	6020	**5**	I	µg/L	10	3	1	2/25/10	3/3/10 12:37

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/17/10 1753
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB32S		
Lab Code:	J1000805-008	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:28
Arsenic, Total	6020	**0.45**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:41
Barium, Total	6020	**7.3**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:28
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:28
Chromium, Total	6020	**3.5**		µg/L	2.0	0.6	1	2/25/10	3/2/10 03:28
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:28
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:28
Iron, Total	6010B	**160**		µg/L	100	10	1	2/26/10	3/1/10 11:42
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:38
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:28
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:28
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:28
Sodium, Total	6010B	**15.9**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:42
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:28
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:28
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/18/10 0835
Date Received: 2/18/10

Sample Name: MWB33S
Lab Code: J1000805-009

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:33
Arsenic, Total	6020	**0.31**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:45
Barium, Total	6020	**12.1**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:33
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:33
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:33
Copper, Total	6020	**1.4**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:33
Iron, Total	6010B	**320**		µg/L	100	10	1	2/26/10	3/1/10 11:44
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:43
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:33
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:33
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:33
Sodium, Total	6010B	**8.11**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:44
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:33
Vanadium, Total	6020	**8.0**		µg/L	5.0	1.2	1	2/25/10	3/2/10 03:33
Zinc, Total	6020	**3**	I	µg/L	10	3	1	2/25/10	3/3/10 12:45

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB34S
Lab Code: J1000805-010

Service Request: J1000805
Date Collected: 2/18/10 0808
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:38
Arsenic, Total	6020	**1.16**		µg/L	0.50	0.14	1	2/25/10	3/3/10 12:49
Barium, Total	6020	**4.1**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:38
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:38
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:38
Chromium, Total	6020	**3.5**		µg/L	2.0	0.6	1	2/25/10	3/2/10 03:38
Cobalt, Total	6020	**1.1**		µg/L	1.0	0.2	1	2/25/10	3/2/10 03:38
Copper, Total	6020	**2.6**	V	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:38
Iron, Total	6010B	**890**		µg/L	100	10	1	2/26/10	3/1/10 11:47
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:38
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:44
Nickel, Total	6020	**10.9**		µg/L	2.0	0.3	1	2/25/10	3/2/10 03:38
Selenium, Total	6020	**1.5**	I	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:38
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:38
Sodium, Total	6010B	**130**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:47
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:38
Vanadium, Total	6020	**10.7**		µg/L	5.0	1.2	1	2/25/10	3/2/10 03:38
Zinc, Total	6020	**34**		µg/L	10	3	1	2/25/10	3/3/10 12:49

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: MWB34I
Lab Code: J1000805-011

Service Request: J1000805
Date Collected: 2/18/10 0735
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:43
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:52
Barium, Total	6020	**53.3**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:43
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:43
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:43
Iron, Total	6010B	**500**		µg/L	100	10	1	2/26/10	3/1/10 11:50
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:45
Nickel, Total	6020	**1**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:43
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:43
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:43
Sodium, Total	6010B	**3.46**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:43
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:43
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:52

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/18/10 0704
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	MWB34D		
Lab Code:	J1000805-012	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:49
Arsenic, Total	6020	**0.23**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 12:56
Barium, Total	6020	**108**		µg/L	2.0	0.5	1	2/25/10	3/2/10 03:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 03:49
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/25/10	3/2/10 03:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 03:49
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 03:49
Iron, Total	6010B	**1320**		µg/L	100	10	1	2/26/10	3/1/10 11:52
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 03:49
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:47
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 03:49
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 03:49
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 03:49
Sodium, Total	6010B	**6.10**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:52
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 03:49
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 03:49
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 12:56

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/18/10 0937
Date Received: 2/18/10

Sample Name: MWB32I
Lab Code: J1000805-013

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:09
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 13:08
Barium, Total	6020	**34.2**		µg/L	2.0	0.5	1	2/25/10	3/2/10 04:09
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:09
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 04:09
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 04:09
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 04:09
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:09
Iron, Total	6010B	**120**		µg/L	100	10	1	2/26/10	3/1/10 11:55
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:09
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:48
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:09
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 04:09
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 04:09
Sodium, Total	6010B	**3.02**		mg/L	0.50	0.02	1	2/26/10	3/1/10 11:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 04:09
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 04:09
Zinc, Total	6020	**5**	I	µg/L	10	3	1	2/25/10	3/3/10 13:08

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/18/10 0735
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	DUP04		
Lab Code:	J1000805-014	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:14
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 13:12
Barium, Total	6020	**50.9**		µg/L	2.0	0.5	1	2/25/10	3/2/10 04:14
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:14
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 04:14
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 04:14
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 04:14
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:14
Iron, Total	6010B	**450**		µg/L	100	10	1	2/26/10	3/1/10 12:03
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:14
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:50
Nickel, Total	6020	**2.2**		µg/L	2.0	0.3	1	2/25/10	3/2/10 04:14
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 04:14
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 04:14
Sodium, Total	6010B	**3.28**		mg/L	0.50	0.02	1	2/26/10	3/1/10 12:03
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 04:14
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 04:14
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 13:12

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000805
Project:	Trail Ridge Landfill	**Date Collected:**	2/18/10 0950
Sample Matrix:	Water	**Date Received:**	2/18/10
Sample Name:	FB		
Lab Code:	J1000805-015	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:19
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 13:16
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:19
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 04:19
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	2/25/10	3/2/10 04:19
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 04:19
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:19
Iron, Total	6010B	ND	U	µg/L	100	10	1	2/26/10	3/1/10 12:06
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:19
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:51
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:19
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 04:19
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 04:19
Sodium, Total	6010B	**0.04**	I	mg/L	0.50	0.02	1	2/26/10	3/1/10 12:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 04:19
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 04:19
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 13:16

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1000805-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	2/26/10 12:37
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:06
Arsenic, Dissolved	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	2/26/10 12:37
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 11:42
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	2/26/10 12:37
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 02:06
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 12:37
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:06
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	2/26/10 12:37
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 02:06
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.6	1	2/25/10	2/26/10 12:37
Chromium, Total	6020	**0.9**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 02:06
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	2/26/10 12:37
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 02:06
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	2/26/10 12:37
Copper, Total	6020	**3.7**		µg/L	2.0	0.5	1	2/25/10	3/2/10 02:06
Iron, Dissolved	6010B	ND	U	µg/L	100	10	1	2/25/10	2/25/10 21:04
Iron, Total	6010B	ND	U	µg/L	100	10	1	2/26/10	3/1/10 11:01
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	2/26/10 12:37
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:06
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 1/10	3/1/10 15:10
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	2/26/10 12:37
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:06
Selenium, Dissolved	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	2/26/10 12:37
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 02:06
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	2/26/10 12:37
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 02:06
Sodium, Dissolved	6010B	**0.28**	I	mg/L	0.50	0.02	1	2/25/10	2/25/10 21:03
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	2/26/10	3/1/10 11:00
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	2/26/10 12:37
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 02:06
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	2/26/10 12:37
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 02:06
Zinc, Dissolved	6020	ND	U	µg/L	10	3	1	2/25/10	2/26/10 12:37
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 11:42

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB12D
Lab Code : J1000805-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.12	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	4.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 13:02	308	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 13:02	119.99	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 19:47	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 13:02	0.3	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 13:02	6.75	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	200	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 13:02	19.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 13:02	2.9	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB12I
Lab Code : J1000805-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 13:34	29	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 13:34	117.76	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 20:32	0.17	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 13:34	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 13:34	4.99	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	42	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 13:34	22.6	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 13:34	1.8	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB12S
Lab Code : J1000805-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.035	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	10	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 14:44	167	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 14:44	114.85	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 20:47	1.8	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 14:44	0.8	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 14:44	5.39	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	120	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 14:44	19.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 14:44	12.5	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB13I
Lab Code : J1000805-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 15:44	27	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 15:44	108.90	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 21:47	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 15:44	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 15:44	4.79	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	20	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 15:44	20.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 15:44	5.6	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB13S
Lab Code : J1000805-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	31	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 16:44	204	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 16:44	113.35	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 22:02	0.72	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 16:44	0.8	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 16:44	5.67	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 15:30	180	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 16:44	16.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 16:44	7.8	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB22S
Lab Code : J1000805-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.052	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	12	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 15:12	170	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 15:12	115.86	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 22:17	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 15:12	0.7	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 15:12	5.57	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 15:30	100	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 15:12	17.0	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 15:12	4.4	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB32D
Lab Code : J1000805-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.038	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 17:24	53	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 17:24	118.24	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 22:32	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 17:24	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 17:24	5.32	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 15:30	47	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 17:24	19.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 17:24	5.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB32S
Lab Code : J1000805-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	0.29	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	27	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/17/10 17:52	215	
Groundwater Elevation	Foot	NA	1	1	1	02/17/10 17:52	117.32	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 22:47	0.19	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/17/10 17:52	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/17/10 17:52	5.28	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 15:30	170	
Temperature (Field)	DEG C	170.1	-	-	1	02/17/10 17:52	18.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/17/10 17:52	6.8	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB33S
Lab Code : J1000805-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	0.85	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	10	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 08:34	122	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 08:34	116.13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 23:02	0.19	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 08:34	0.8	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 08:34	5.10	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	110	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 08:34	17.8	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 08:34	5.7	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB34S
Lab Code : J1000805-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	2.8	
Chloride	mg/L (ppm)	300.0	0.4	0.062	2	02/24/10 17:21	210	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 08:07	1262	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 08:07	116.95	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 23:17	0.21	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 08:07	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 08:07	5.92	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	900	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 08:07	17.9	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 08:07	1.1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB34I
Lab Code : J1000805-011
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	0.019	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 07:34	34	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 07:34	117.79	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 23:32	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 07:34	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 07:34	5.03	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	37	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 07:34	21.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 07:34	6.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB34D
Lab Code : J1000805-012
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	0.13	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.1	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 07:03	342	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 07:03	117.69	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/19/10 01:02	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 07:03	0.3	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 07:03	6.81	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	250	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 07:03	21.4	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 07:03	0.7	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : MWB32I
Lab Code : J1000805-013
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	0.044	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 09:36	32	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 09:36	118.32	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/19/10 01:17	0.18	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 09:36	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 09:36	5.29	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	28	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 09:36	18.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 09:36	31.6	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : DUP04
Lab Code : J1000805-014
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	5.6	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 07:34	34	
Groundwater Elevation	Foot	NA	1	1	1	02/18/10 07:34	118.32	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/19/10 01:31	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 07:34	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 07:34	5.03	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	18	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 07:34	21.1	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 07:34	6.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : FB
Lab Code : J1000805-015
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	U	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 09:50	6	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/19/10 01:46	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 09:50	5.1	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 09:50	6.88	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	U	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 09:50	20.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 09:50	0.0	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1000805-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 17:23	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	02/22/10 16:47	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/24/10 17:21	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/24/10 17:21	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	02/18/10 19:02	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 19:02	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 16:50	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/24/10 15:30	U	

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MWB12D	J1000805-001	89	99	94	99
MWB12I	J1000805-002	89	98	94	99
MWB12S	J1000805-003	94	101	98	103
MWB13I	J1000805-004	91	96	96	100
MWB13S	J1000805-005	89	98	96	99
MWB22S	J1000805-006	92	97	96	100
MWB32D	J1000805-007	93	96	94	99
MWB32S	J1000805-008	88	97	94	98
MWB33S	J1000805-009	93	96	97	100
MWB34S	J1000805-010	94	98	94	99
MWB34I	J1000805-011	93	97	96	100
MWB34D	J1000805-012	91	100	97	99
MWB32I	J1000805-013	92	98	95	102
DUP04	J1000805-014	95	100	99	103
FB	J1000805-015	93	98	96	101
Trip	J1000805-016	94	99	96	100
Method Blank	JWG1000741-4	91	101	97	103
Lab Control Sample	JWG1000741-3	94	99	99	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Extracted: 02/19/2010
Date Analyzed: 02/19/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000741

Analyte Name	Lab Control Sample JWG1000741-3 Lab Control Spike Result	Expected	%Rec		%Rec Limits
Chloromethane	23.8	20.0	119		67-135
Vinyl Chloride	22.0	20.0	110		78-132
Bromomethane	21.0	20.0	105		79-130
Chloroethane	21.8	20.0	109		74-126
Trichlorofluoromethane	18.9	20.0	94		74-134
1,1-Dichloroethene	17.8	20.0	89		78-130
Acetone	125	100	125		67-133
Iodomethane (Methyl Iodide)	100	100	100		68-134
Carbon Disulfide	96.3	100	96		76-138
Methylene Chloride	19.5	20.0	97		72-124
trans-1,2-Dichloroethene	18.4	20.0	92		77-124
Acrylonitrile	112	100	112		77-127
1,1-Dichloroethane	19.2	20.0	96		80-128
Vinyl Acetate	93.6	100	94		61-148
cis-1,2-Dichloroethene	19.6	20.0	98		80-126
2-Butanone (MEK)	99.9	100	100		73-127
Bromochloromethane	20.2	20.0	101		79-129
Chloroform	18.5	20.0	92		83-124
1,1,1-Trichloroethane (TCA)	16.5	20.0	83		79-124
Carbon Tetrachloride	15.9	20.0	79	*	81-125
Benzene	19.5	20.0	97		79-119
1,2-Dichloroethane (EDC)	17.8	20.0	89		80-124
Trichloroethene (TCE)	20.0	20.0	100		76-124
1,2-Dichloropropane	20.5	20.0	102		79-123
Dibromomethane	19.2	20.0	96		83-123
Bromodichloromethane	17.6	20.0	88		81-123
cis-1,3-Dichloropropene	17.2	20.0	86		86-123
4-Methyl-2-pentanone (MIBK)	93.1	100	93		72-136
Toluene	19.0	20.0	95		86-117
trans-1,3-Dichloropropene	17.1	20.0	85		83-124
1,1,2-Trichloroethane	19.4	20.0	97		86-114
Tetrachloroethene (PCE)	18.0	20.0	90		80-121
2-Hexanone	94.9	100	95		71-138
Dibromochloromethane	17.3	20.0	87		82-121
1,2-Dibromoethane (EDB)	19.7	20.0	99		88-117
Chlorobenzene	19.0	20.0	95		86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Extracted: 02/19/2010
Date Analyzed: 02/19/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000741

Analyte Name	Lab Control Sample JWG1000741-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	16.9	20.0	84 *	85-117
Ethylbenzene	18.4	20.0	92	90-118
m,p-Xylenes	39.2	40.0	98	86-121
o-Xylene	18.3	20.0	91	89-119
Styrene	18.8	20.0	94	89-122
Bromoform	16.6	20.0	83	68-129
1,1,2,2-Tetrachloroethane	19.7	20.0	99	83-120
1,2,3-Trichloropropane	19.0	20.0	95	83-123
1,4-Dichlorobenzene	18.2	20.0	91	83-113
trans-1,4-Dichloro-2-butene	21.4	20.0	107	53-143
1,2-Dichlorobenzene	18.3	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.6	20.0	93	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MWB12D	J1000805-001	111
MWB12I	J1000805-002	110
MWB12S	J1000805-003	115
MWB13I	J1000805-004	97
MWB13S	J1000805-005	109
MWB22S	J1000805-006	106
MWB32D	J1000805-007	90
MWB32S	J1000805-008	99
MWB33S	J1000805-009	104
MWB34S	J1000805-010	94
MWB34I	J1000805-011	101
MWB34D	J1000805-012	100
MWB32I	J1000805-013	101
DUP04	J1000805-014	102
FB	J1000805-015	102
Method Blank	JWG1000755-4	114
Lab Control Sample	JWG1000755-3	97

Surrogate Recovery Control Limits (%)

Sur1 =	1,1,1,2-Tetrachloroethane	77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Extracted: 02/22/2010
Date Analyzed: 02/23/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000755

	Lab Control Sample JWG1000755-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0151	0.0143	106	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0159	0.0143	111	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/17/10
Date Received: 2/18/10
Date Analyzed: 2/25/10 - 3/ 3/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB12S
Lab Code: J1000805-003

Units: µg/L
Basis: NA

Analyte Name	Method	Sample Result	Matrix Spike J1000805-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J1000805-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony, Total	6020	0.3	51.3	50.0	102	53.2	50.0	106	75 - 125	4	20
Arsenic, Total	6020	0.52	48.2	50.0	95	51.2	50.0	101	75 - 125	6	20
Barium, Total	6020	4.6	57.1	50.0	105	59.2	50.0	109	75 - 125	4	20
Beryllium, Total	6020	ND	45.5	50.0	91	48.4	50.0	97	75 - 125	6	20
Cadmium, Total	6020	ND	48.6	50.0	97	50.7	50.0	101	75 - 125	4	20
Chromium, Total	6020	2.2	52.7	50.0	101	54.9	50.0	105	75 - 125	4	20
Cobalt, Total	6020	ND	50.4	50.0	101	52.4	50.0	105	75 - 125	4	20
Copper, Total	6020	0.6	48.9	50.0	97	52.0	50.0	103	75 - 125	6	20
Iron, Dissolved	6010B	24	1960	2000	97	1930	2000	95	75 - 125	1	20
Lead, Total	6020	ND	51.5	50.0	103	53.9	50.0	108	75 - 125	5	20
Nickel, Total	6020	1.2	50.1	50.0	98	52.4	50.0	103	75 - 125	5	20
Selenium, Total	6020	7.9	54.2	50.0	93	55.9	50.0	96	75 - 125	3	20
Silver, Total	6020	ND	48.0	50.0	96	50.1	50.0	100	75 - 125	4	20
Thallium, Total	6020	ND	51.4	50.0	103	53.5	50.0	107	75 - 125	4	20
Vanadium, Total	6020	42.2	92.1	50.0	100	94.9	50.0	105	75 - 125	3	20
Zinc, Total	6020	ND	92.0	100	92	96.1	100	96	75 - 125	4	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/17/10
Date Received: 2/18/10
Date Analyzed: 2/25/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB12S
Lab Code: J1000805-003

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3005A

Analyte Name	Sample Result	Matrix Spike J1000805-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J1000805-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Dissolved	6.05	16.4	10.0	103	16.2	10.0	102	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/17/10
Date Received: 2/18/10
Date Analyzed: 3/ 1/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB32D
Lab Code: J1000805-007

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J1000805-MS2 Result	Amount	% Rec	Duplicate Matrix Spike J1000805-DMS2 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	430	2360	2000	97	2290	2000	93	75 - 125	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Collected: 2/17/10
Date Received: 2/18/10
Date Analyzed: 3/ 1/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB32D
Lab Code: J1000805-007

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J1000805-MS2 Result	Amount	% Rec	Duplicate Matrix Spike J1000805-DMS2 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total	4.39	14.4	10.0	100	14.3	10.0	99	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Analyzed: 2/25/10 - 3/ 3/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000805-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Dissolved	6020	**54.4**	50.0	109	80 - 120
Antimony, Total	6020	**50.3**	50.0	101	80 - 120
Arsenic, Dissolved	6020	**53.6**	50.0	107	80 - 120
Arsenic, Total	6020	**49.0**	50.0	98	80 - 120
Barium, Dissolved	6020	**52.1**	50.0	104	80 - 120
Barium, Total	6020	**52.3**	50.0	105	80 - 120
Beryllium, Dissolved	6020	**53.5**	50.0	107	80 - 120
Beryllium, Total	6020	**46.8**	50.0	94	80 - 120
Cadmium, Dissolved	6020	**52.1**	50.0	104	80 - 120
Cadmium, Total	6020	**49.5**	50.0	99	80 - 120
Chromium, Dissolved	6020	**51.5**	50.0	103	80 - 120
Chromium, Total	6020	**51.4**	50.0	103	80 - 120
Cobalt, Dissolved	6020	**52.1**	50.0	104	80 - 120
Cobalt, Total	6020	**50.3**	50.0	101	80 - 120
Copper, Dissolved	6020	**51.9**	50.0	104	80 - 120
Copper, Total	6020	**49.8**	50.0	100	80 - 120
Iron, Dissolved	6010B	**1960**	2000	98	80 - 120
Iron, Total	6010B	**1880**	2000	94	80 - 120
Lead, Dissolved	6020	**52.1**	50.0	104	80 - 120
Lead, Total	6020	**55.1**	50.0	110	80 - 120
Mercury, Dissolved	7470A	**4.90**	5.00	98	80 - 120
Mercury, Total	7470A	**4.90**	5.00	98	80 - 120
Nickel, Dissolved	6020	**52.3**	50.0	105	80 - 120
Nickel, Total	6020	**51.1**	50.0	102	80 - 120
Selenium, Dissolved	6020	**53.0**	50.0	106	80 - 120
Selenium, Total	6020	**46.2**	50.0	92	80 - 120
Silver, Dissolved	6020	**48.2**	50.0	96	80 - 120
Silver, Total	6020	**49.3**	50.0	99	80 - 120
Thallium, Dissolved	6020	**51.7**	50.0	103	80 - 120
Thallium, Total	6020	**50.8**	50.0	102	80 - 120
Vanadium, Dissolved	6020	**50.3**	50.0	101	80 - 120
Vanadium, Total	6020	**51.1**	50.0	102	80 - 120
Zinc, Dissolved	6020	**105**	100	105	80 - 120
Zinc, Total	6020	**95.1**	100	95	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000805
Date Analyzed: 2/25/10 - 3/ 1/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000805-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Dissolved	6010B	**10.7**	10.0	107	80 - 120
Sodium, Total	6010B	**10.0**	10.0	100	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/18-22/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB12D
Lab Code : J1000805-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.12	0.12	0.12	<1	
Chloride	mg/L (ppm)	300.0	0.2	4.2	4.1	4.15	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/17/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/18-22/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB12D
Lab Code : J1000805-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.00	0.12	1.08	96	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	4.2	110	106	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.92	98	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/22/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB33S
Lab Code : J1000805-009DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.85	0.85	0.85	<1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/22/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB33S
Lab Code : J1000805-009MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.00	0.85	1.81	96	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : MWB34I
Lab Code : J1000805-011DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	5.7	5.6	5.65	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : 02/18/10
Date Received : 02/18/10
Date Prepared : NA
Date Analyzed : 02/18,19/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MWB34I
Lab Code : J1000805-011MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	5.7	112	106	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.95	99	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000805
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 02/18-25/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1000805-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.06	106	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.01	101	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.10	102	90-110	
Chloride	mg/L (ppm)	300.0	5.00	4.92	98	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.18	104	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	302	101	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	255	85	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	298	99	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: PRO TECH Service Request #: J1000805

Project: TRAIL RIDGE

Cooler received on 2/18/10 and opened on 2/18/10 by SAO

COURIER: CAS UPS FEDEX Client Other _____ Airbill #_____

1	Were custody seals on outside of cooler?	Yes	No						
	If yes, how many and where?	#:___ on lid	other						
2	Were seals intact and signature and date correct?	Yes	No	N/A					
3	Were custody papers properly filled out?	Yes	No	N/A					
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	2.0	2.2						
5	Thermometer ID	T15							
6	Temperature Blank Present?	Yes	No						
7	Were Ice or Ice Packs present	Ice	Ice Packs	No					
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A					
9	Type of packing material present	BUBBLE BAGS							
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A					
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A					
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A					
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A					
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2								
	Preservative additions noted below								
14	Were all samples received within analysis holding times?	Yes	No	N/A					
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A					
16	Where did the bottles originate?	CAS	Client						

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J1000805 Date: 2/18/10 Initials: SD

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-					-		-
-001	3	3				1	1	1																							
-002																															
-003																															
-004																															
-005																															
-006																															
-007																															
-008																															
-009																															
-010																															
-011																															
-012																															
-013																															
-014				SM 2/18/10																											
-015		1		1		1	1	1																							
-016		4																													
-017																															
-018																															
-019																															
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-036																															
-037																															
-038																															
-039																															
-040																															

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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 2

SR # J1000805
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC 200 W. FORSYTH ST., STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number a

PRESERVATIVE: HNO3 | H2SO4 | - | HCl | - | | HNO3 | | |

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	METALS	NH3	TDS, Cl-, NO3	VOA	EDB/DBCP	DISSOLVED METALS									REMARKS/ ALTERNATE DESCRIPTION
MWB12D		2-17	1303	GW	9	1	1	1	3	3										
MWB12I		2-17	1335	GW	9	1	1	1	3	3										
MWB12S		2-17	1445	GW	10	1	1	1	3	3		1								
MWB13I		2-17	1545	GW	9	1	1	1	3	3										
MWB13S		2-17	1645	GW	10	1	1	1	3	3		1								
MWB22S		2-17	1513	GW	9	1	1	1	3	3										
MWB32D		2-17	1725	GW	9	1	1	1	3	3										
MWB32S		2-17	1753	GW	9	1	1	1	3	3										
MWB33S		2-18	0835	GW	9	1	1	1	3	3										
MWB34S		2-18	0809	GW	9	1	1	1	3	3										

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_X_ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Shawn OSTROM	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 2-18-10 / 1050	Date/Time: 2/18/10 1150	Date/Time: 2/18/10 1155	Date/Time: 2/18/10 1155	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # J1000805
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC 200 W. FORSYTH ST., STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Numb[redacted]

PRESERVATIVE: HNO3 | H2SO4 | - | HCl | -

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	METALS	NH3	TDS, Cl-, NO3	VOC	ENB/DBCP	REMARKS/ ALTERNATE DESCRIPTION
MWB34I		2-18	0735	GW	9	1	1	1	3	3	
MWB34D		2-18	0704	GW	9	1	1	1	3	3	
MWB32I		2-18	0937	GW		1	1	1	3	3	
DUP04		2-18	0735	GW	9	1	1	1	3	3	
FB		2-18	0950	GW	9	1	1	1	3	3	
TRIP		2-18	—	GW	✓				✓		

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature:	Signature:	Signature:
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: SimerOSTROM	Printed Name:	Printed Name:
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm:	Firm:
Date/Time: 2-18-10 1050	Date/Time: 2/18/10 10:50	Date/Time: 2/18/10 11:55	Date/Time: 2/18/10 1155	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: | | | | |

Sample Point: MW-B12D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	12:42	:21	1.75	4.5	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1256 (ft/msl)	457 (ft)	1199 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
112.00 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1253	0.21 1st	6.75 1st	308 1st	19.9	13	0.3	-149.0	
1256	0.21 2nd	6.74 2nd	308 2nd	19.9	28	0.3	-149.5	
1259	0.21 3rd	6.74 3rd	308 3rd	19.9	34	0.3	-150.0	
1302	0.21 4th	6.75 4th	308 4th	19.9	29	0.3	-150.0	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	6.75	308	19.9	29	0.3	-150.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 112.00 - 4.57 = 109.43 x 0.163 = 17.51 gallon

FLOW: 70 x 4 = 280 ÷ 60 = 4.67 ∴ 0.214 gpm

ACTUAL: 21 ÷ 4.67 = 4.50 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MWB12I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	13:14	2	10.5	3.9	04

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: -

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1246.62 (ft/msl)

Depth to Water (DTW) (from TOC): 6.86 (ft)

Groundwater Elevation (site datum, from TOC): 1176 (ft/msl)

Total Well Depth (from TOC): 71.50 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1325	0.19 1st	4.98 1st	29 1st	22.5	1.8	0.5	69.2	
1328	0.19 2nd	4.99 2nd	29 2nd	22.5	2.2	0.5	64.8	
1331	0.19 3rd	4.96 3rd	29 3rd	22.5	1.1	0.5	62.4	
1334	0.19 4th	4.99 4th	29 4th	22.6	1.8	0.5	60.2	
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/17/10	4.99	29	22.6	1.8	0.5	60.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 71.50 - 6.86 = 64.64 x 0.163 = 10.54 gallon

FLOW: 80 x 4 = 320 ÷ 60 = 5.33 ∴ 0.188 gpm

ACTUAL: 21 ÷ 5.33 = 3.94 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

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TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW812S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	13:45	1:00	24	13.7	5.7

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or 1.00 µ (circle or fill in)

Purging Device: C — Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1246.63 (ft/msl)	9.78 (ft)	1148.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
24.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:55	0.11 (1st)	5.29 (1st)	167 (1st)	19.0	57.3	0.7	-8.9	
14:05	0.11 (2nd)	5.29 (2nd)	170 (2nd)	19.0	65.4	0.7	-12.6	
14:15	0.11 (3rd)	5.30 (3rd)	173 (3rd)	19.1	72.5	0.7	-16.9	
14:20	0.25 / 0.14 (4th)	5.32 (4th)	168 (4th)	19.2	47.1	0.8	-19.4	
14:25	0.35	5.34	166	19.2	32.3	0.8	-22.0	
14:30	0.35	5.33	166	19.2	25.4	0.8	-24.6	
14:35	0.35	5.36	167	19.3	13.7	0.8	-25.1	
14:38	0.35	5.38	164	19.2	12.6	0.8	-25.8	
14:41	0.35	5.38	168	19.2	12.8	0.8	-26.4	
14:44	0.35	5.39	167	19.2	12.5	0.8	-26.9	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
02/17/10	5.39	167	19.2	12.5	0.8	-26.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR — Odor: — Color: SH. Brownish tint — Other: NO sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 — Outlook: clear 40°F — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 24.50 - 9.78 = 14.72 x 0.163 = 2.40 gallons

FLOW 1: 138 x 4 = 552 ÷ 60 = 9.2 ∴ 0.109 gpm

~~ACTUAL~~ FLOW 2: 43 x 4 = 172 ÷ 60 = 2.87 ∴ 0.349 gpm

ACTUAL: (30 ÷ 9.2) + (30 ÷ 2.87) = 3.26 + 10.45 = 13.71 gallons

INCREASED FLOW RATE @ 1415 IN EFFORT TO DEVELOP WELL & LOWER TURBIDITY

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ACMOUR		PRO-TECH
/ /			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: ____ Sample Point: MW-13I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1524	2:1	7.1	4.1	06

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ~ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1259.8 (ft/msl)

Depth to Water (DTW) (from TOC): 17.08 (ft)

Groundwater Elevation (site datum, from TOC): 1089.0 (ft/msl)

Total Well Depth (from TOC): 60.40 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1535	0.2 1st	4.80 1st	27 1st	20.9	5.1	0.5	1547	
1538	0.2 2nd	4.80 2nd	27 2nd	20.9	5.4	0.5	1563	
1541	0.2 3rd	4.80 3rd	27 3rd	20.9	5.5	0.5	1549	
1544	0.2 4th	4.79 4th	27 4th	20.9	5.6	0.5	1553	
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/17/10	4.79	27	20.9	5.6	0.5	1553	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 60.40 - 17.08 = 43.32 x 0.163 = 7.06 gallon

FLOW: 76 x 4 = 304 ÷ 60 = 5.07 ≈ 0.197 gpm

ACTUAL: 21 ÷ 5.07 = 4.14 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
____/____/____			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B135 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1600	1:45	2.23	4.2	1.9

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: (Y) or N — 0.45 µ or 1.00 µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1260.6 (ft/msl)	12.71 (ft)	1133.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26.56 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
16:10	0.09 1st		1st		138.2			
16:15	0.09 2nd		2nd		92.4			
16:20	0.09 3rd		3rd		58.3			
16:25	0.09 4th		4th		25.3			
16:30	0.09				16.7			
16:35	0.09				9.6			
16:38	0.09	5.74	198	16.8	7.3	0.8	710	
16:41	0.09	5.71	200	16.9	7.8	0.8	672	
16:44	0.09	5.67	204	16.9	7.8	0.8	641	
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
02/17/10	5.67	204	16.9	7.8	0.8	641	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 26.56 - 12.71 = 13.85 x 0.163 = 2.26 gal

FLOW: 161 x 4 = 644 ÷ 60 = 10.73 ∴ 0.093 gpm

ACTUAL: 45 ÷ 10.73 = 4.19 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
__/__/__			115

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B 2 2 S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 17 10	14:55	1:18	24	3.1	1.3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ~

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1269.7 (ft/msl)

Depth to Water (DTW) (from TOC): 11.11 (ft)

Groundwater Elevation (site datum, from TOC): 1158.6 (ft/msl)

Total Well Depth (from TOC): 2600 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
15:06	0.17 1st	5.57 1st	170 1st	16.9	5.3	0.7	825	
15:09	0.17 2nd	5.58 2nd	170 2nd	17.0	4.5	0.7	809	
15:12	0.17 3rd	5.57 3rd	170 3rd	17.0	4.4	0.7	799	
:	4th	4th	4th					
:								
:								
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02 17 10	5.57	170	17.0	4.4	0.7	799	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: Clear 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 26.00 - 11.11 = 14.89 X 0.163 = 2.43 gallon

FLOW: 88 x 4 = 352 ÷ 60 = 5.87 ∴ 0.170 gpm

ACTUAL: 18 ÷ 5.87 = 3.07 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW832D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	17:00	:25	1.66	5.6	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1249.3 (ft/msl)
Depth to Water (DTW) (from TOC): 6.69 (ft)
Groundwater Elevation (site datum, from TOC): 1182.4 (ft/msl)
Total Well Depth (from TOC): 108.81 (ft)
Stick Up (from ground elevation): ____ (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
17:14	0.22 1st	5.30 1st	51	19.2	3.9	0.5	136.2	
17:19	0.22 2nd	5.30 2nd	51	19.2	6.2	0.5	137.9	
17:20	0.22 3rd	5.34 3rd	52	19.3	4.8	0.5	139.0	
17:24	0.22 4th	5.32 4th	53	19.2	5.0	0.5	139.0	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/17/10	5.32	53	19.2	5.0	0.5	139.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: CLEAR 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 108.81 - 6.69 = 102.12 x 0.163 = 16.65 gallon

FLOW: 67 x 4 = 268 ÷ 60 = 4.47 ∴ 0.224 gpm

ACTUAL: 25 ÷ 4.47 = 5.59 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW8325 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/17/10	1736	:17	2.1	2.8	1.4

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: - — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: _____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1246.64 (ft/msl)	7.32 (ft)	1173.2 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
19.90 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
17:46	0.16 1st	5.30 1st	212 1st	18.0	5.9	0.5	-132.2	
17:49	0.16 2nd	5.29 2nd	211 2nd	18.1	8.3	0.5	-132.2	
17:52	0.16 3rd	5.28 3rd	212 3rd	18.1	8.1	0.5	-132.9	
:		5.28 4th	215 4th	18.1	6.8	0.5	-133.2	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/17/10	5.28	215	18.1	6.8	0.5	-133.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5-10 Outlook: CLEAR 40°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 19.90 - 7.32 = 12.58 x 0.163 = 2.05 gallon

FLOW: 91 x 4 = 364 ÷ 60 = 6.07 ∴ 0.164 gpm

ACTUAL: 17 ÷ 6.07 = 2.80 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/17/10	DAN ARMOUR		PRO-TECH
/ /			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW B 3 3 S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 18 10	08:19	:16	1.7	2.7	1.6

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1259.0 (ft/msl)	9.77 (ft)	1161.3 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.30 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
08:28	0.17	5.11	119	17.8	7.0	0.8	159.4	
08:31	0.17	5.12	120	17.9	6.2	0.8	159.2	
08:34	0.17	5.10	122	17.8	5.7	0.8	159.1	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02 18 10	5.10	122	17.8	5.7	0.8	159.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.30 - 9.77 = 10.53 x 0.163 = 1.72 gallon

FLOW: 89 x 4 = 356 ÷ 60 = 5.93 @ 0.169 gpm

ACTUAL: 16 ÷ 5.93 = 2.70 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PRO-TECH
/ /			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW3345 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	07:51	:17	1.6	3.0	1.9

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other:

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): 1257.78 (ft/msl)

Depth to Water (DTW) (from TOC): 08.83 (ft)

Groundwater Elevation (site datum, from TOC): 1169.95 (ft/msl)

Total Well Depth (from TOC): 18.36 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
08:01	0.17 gpm 1st	5.97 1st	1274 1st	17.9 1st	2.9 1st	0.5 - 1st	172.4 1st	
08:04	0.17 2nd	5.92 2nd	1259 2nd	17.9 2nd	1.6 2nd	0.5 - 2nd	172.8 2nd	
08:07	0.17 3rd	5.92 3rd	1262 3rd	17.9 3rd	1.1 3rd	0.5 - 3rd	173.2 3rd	
:	4th	4th	4th	4th	4th	4th	4th	
:								
:								
:								
:								
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:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/18/10	5.92	1262	17.9	1.1	0.5 -	173.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: SH Yellow tint Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 18.36 - 8.83 = 9.53 x 0.163 = 1.55 gallon

FLOW: 86 x 4 = 344 ÷ 60 = 5.73 i. 0.174 gpm

ACTUAL: 17 ÷ 5.73 = 2.97 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	Dan Armour		Pro-Tech
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MWB34I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	07:14	2:1	7.5	4.1	06

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 1258.0 (ft/msl)

Depth to Water (DTW) (from TOC): 8.01 (ft)

Groundwater Elevation (site datum, from TOC): 1179 (ft/msl)

Total Well Depth (from TOC): 53.95 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
07:25	0.2 1st	5.03 1st	34 1st	21.1	6.1	0.4	140.1	
07:28	0.2 2nd	5.04 2nd	34 2nd	21.1	5.4	0.9	142.2	
07:31	0.2 3rd	5.05 3rd	34 3rd	21.1	6.8	0.4	144.0	
07:34	0.2 4th	5.03 4th	34 4th	21.1	6.0	0.4	145.0	
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Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/18/10	5.03	34	21.1	6.0	0.4	145.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 53.95 - 8.01 = 45.94 x 0.163 = 7.49 gallon

FLOW: 76 x 4 = 304 ÷ 60 = 5.07 ∴ 0.197 gpm

ACTUAL: 21 ÷ 5.07 = 4.14 gallon

COMPLETED DUP84 & MWB34I

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PRO-TECH
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: ____ Sample Point: MW 3 4 D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	0640	2:4	15.1	5.1	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1259.2 (ft/msl)

Depth to Water (DTW) (from TOC): 8.23 (ft)

Groundwater Elevation (site datum, from TOC): 1176.9 (ft/msl)

Total Well Depth (from TOC): 100.78 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit 30	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0654	0.21 1st	6.84 1st	344	21.4	0.9	0.4	90.0	
0657	0.21 2nd	6.83 2nd	343	21.3	0.3	0.3	89.1	
0700	0.21 3rd	6.83 3rd	344	21.4	0.6	0.3	89.0	
0703	0.21 4th	6.81 4th	342	21.4	0.7	0.3	88.7	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/18/10	6.81	342	21.4	0.7	0.3	88.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 100.78 - 8.23 = 92.55 x 0.163 = 15.09 gallon

FLOW: 71 x 4 = 284 ÷ 60 = 4.73 ∴ 0.21 gpm

ACTUAL: 24 ÷ 4.73 = 5.07 gallon

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PRO-TECH
____/____/____			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: MW832I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	0846	:51	9.5	32.3	3.4

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ~

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 1247.9 (ft/msl)

Depth to Water (DTW) (from TOC): 6.47 (ft)

Groundwater Elevation (site datum, from TOC): 1183.2 (ft/msl)

Total Well Depth (from TOC): 64.56 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0856	0.2 1st		1st		1526			
0859	0.2 2nd		2nd		1713			
0902	0.2 3rd		3rd		1862			
0912	0.83 4th		4th		1371			
0917	0.83				811			
0922	0.83				537			
0927	0.83				311			
0936	0.83	5.32	32	18.2	28.6	0.5	162.0	
0939	0.83	5.30	33	18.2	30.0	0.5	164.0	
0946	0.83	5.29	32	18.2	31.6	0.5	163.5	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/18/10	5.29	32	18.2	31.6	0.5	163.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: SLT. CLOUDY Odor: ____ Color: Whitish tint Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 64.56 - 6.47 = 58.09 x 0.163 = 9.47 gallon

FLOW 1: 76 x 4 = 304 ÷ 60 = 5.07 ∴ 0.197 gpm

FLOW 2: 18 x 4 = 72 ÷ 60 = 1.2 ∴ 0.83 gpm

ACTUAL: (16 ÷ 5.09) + (35 ÷ 1.2) = 3.16 + 29.17 = 32.33 gallon

INCREASED FLOW @ 0902 TO ASSIST IN DEVELOPING WELL & LOWER TURBIDITY.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PROTECH

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.: ____ Sample Point: FB (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	0950	+	+	+	+

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump D-Bailer
B-Peristaltic Pump E-Piston Pump
C-QED Bladder Pump F-Dipper/Bottle

Sampling Device: X

X-Other: Sample bottle

Filter Type:
A-In-line Disposable C-Vacuum
B-Pressure X-Other ____

Sample Tube Type:
A-Teflon C-PVC X-Other: ____
B-Stainless Steel D-Polypropylene

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)
Depth to Water (DTW) (from TOC) ____ (ft)
Groundwater Elevation (site datum, from TOC) ____ (ft/msl)
Total Well Depth (from TOC) ____ (ft)
Stick Up (from ground elevation) ____ (ft)
Casing ID ____ (in)
Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/18/10	6.88	6	20.2	00	5.1		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PAN-TERRA
____/____/____	____	____	____

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 693-9177
Houston (208) 441-7606
Pittsburgh (412) 746-8823

FACILITY NAME: TRAIL RIDGE

PTH TO WATER
EASUREMENTS

DATE: 2-16-10

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB2S	7.00
MWB2I	7.82
MWB3DS	7.26
MWB29S	6.56
MWB29I	4.04
MWB29D	4.18
MWB28S	6.16
MWB27S	5.94
MWB27I	4.92
MWB27D	5.30
MWB26S	6.34
MWB25S	~~6.95~~ 7.39
MWB25I	4.98
MWB25D	5.27
MWB24S	6.75
MWB14S	12.93
MWB14I	9.35

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB14D	9.24
MWB23S	14.14
MWB13S	12.76
MWB13I	17.11
MWB22S	11.12
MWB12I	6.90
MWB12S	9.81
MWB12D	4.56
MWB11S	10.79
MWB11I (R)	10.63
MWB20S	6.91
MWB7S	7.34
MWB7I	2.95
MWB7D	0.90
MWB31D	16.73
MWB3S	8.18
MWB3I	12.40

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9239
Baton Rouge (504) 293-0136
Jacksonville (904) 693-3177
Houston (208) 441-7606
Pittsburgh (412) 746-8823

FACILITY NAME: TRAIL RIDGE

PTH TO WATER
EASUREMENTS

DATE: 2-16-10

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB16S	5.58
MWB17S	5.78
MWB17I	2.56
MWB17D	6.40
MWB18S	5.31
MWB19S	6.06
MWB19I	6.50
MWB19D	6.40
MWB34S	8.81
MWB34I	8.05
MWB34D	8.23
MWB33S	9.81
MWB32S	7.35
MWB32I	6.52 ~~8.044~~
MWB32D	6.70
MWB21S	9.97

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

WELL CONDITION SUMMARY

Site: TRAIL RIDGE Personnel: DAN ARMOUR

Date: 2-16-10 Page 1 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB2S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☒ Turbid	☒ OK ☐ Inadequate	SLIGHTLY CLOUDY
MWB2I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB3DS	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	NEEDS A NEW LOCK
MWB27D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	NEEDS A NEW LOCK
MWB13S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to site manager and/or Compliance Manager/Engineer

WELL CONDITION SUMMARY

Site: TRAIL RIDGE Personnel: DAN ARMOUR

Date: 2-16-10 Page 2 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB 13I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB17S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☒ Turbid	☒ OK ☐ Inadequate	SLIGHTLY CLOUDY
MWB17I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB17D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB3S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB3I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB3D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB34S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	SILT BUILDING AROUND BASE OF WELL
MWB34I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	SILT BUILDING AROUND BASE OF WELL
MWB34D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	SILT BUILDING AROUND BASE OF WELL

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to site manager and/or Compliance Manager/Engineer

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 200710329

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 # 90504 EXP: NOV 2010

Standard B 10.0 NTU HF SCIENTIFIC LOT # 90534 EXP: NOV 2010

Standard C 0.02 NTU HF SCIENTIFIC LOT # 90501 EXP: NOV 2010

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/02/16	1109	A	1000	AUTO CAL.	-	YES	CONT	DM
"	"	B	10.0	"	-	YES	CONT	DM
"	"	C	0.02	"	-	YES	CONT	DM
10/02/17	0600	A	1000	AUTO CALIB	-	YES	CONT	DM
"	"	B	10.0	"	-	YES	CONT	DM
"	"	C	0.02	"	-	YES	CONT	DM
10/02/18	0600	A	1000	AUTO CALIB	-	YES	CONT	DM
"	"	B	10.0	"	-	YES	CONT	DM
"	"	C	0.02	"	-	YES	CONT	DM

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI98128 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: 08-2010

Standard B 1413 $^{uS}/_{cm}$ PINE ENVIRONMENTAL EXP: 06-2010

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
10/02/16	1100	A	84	AUTO CAL	-	YES	CONT	DA
10/02/16	1100	B	1413	"	-	YES	CONT	DA
10/02/17	0600	A	84	AUTOCALIB	-	YES	CONT	DA
10/02/17	0600	B	1413	"	-	YES	CONT	DA
10/02/18	0600	A	84	AUTO CALIB	-	YES	CONT	DA
10/02/18	0600	B	1413	"	-	YES	CONT	DA

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 (y/m/d/d)	TIME (h:m/h)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/02/16	1100	A	7.01	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.01	"	-	YES	CONT	DSA
"	"	C	10.01	"	-	YES	CONT	DSA
10/02/17	0600	A	7.01	AUTO CALIB	-	YES	CONT	DSA
"	"	B	4.01	"	-	YES	CONT	DSA
"	"	C	10.01	"	-	YES	CONT	DSA
10/02/18	0600	A	7.01	AUTO CALIB	-	YES	CONT	DSA
"	"	B	4.01	"	-	YES	CONT	DSA
"	"	C	10.01	"	-	YES	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

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

PARAMETER: *[check only one]*

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

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

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/02/16	1100	A	8.985	8.87	0.12	YES	CONT	DSA
10/03/17	0600	A	9.352	8.9.13	0.22	YES	CONT	DSA
10/02/18	0600	A	9.276	9.16	0.12	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
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW827D	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED		WASTE		MANAGEMENT		SAMPLE		
		FIELD	INFORMATION		FORM						

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ±5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27I	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB275	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MW829D	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB29I	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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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)

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GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB29S	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ±5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB2I	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWBZS	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB31D	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB3S	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB3I	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWD17D	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE	SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB17I	SAMPLE ID:	DATE: 2/16/10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(4)	SEE	ATTACHED	WASTE	MANAGEMENT				SAMPLE		
		FIELD	INFORMATION	FORM							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB17S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MW819D	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW319I	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB19S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB7I	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW87I	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW820S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11I(R)	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB2-15	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB12D	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B12I	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	⊛	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B12 S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB-23	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13I	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWD13S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(1)	SEE	ATTACHED		WASTE		MANAGEMENT		SAMPLE		
		FIELD	INFORMATION		FORM						

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW332S	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW332D	SAMPLE ID:	DATE: 2-17-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB34D	SAMPLE ID:	DATE: 8 2-18-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB34I	SAMPLE ID:
DATE: 3 2-18-10	

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE	ATTACHED	WASTE	MANAGEMENT	SAMPLE					
		FIELD	INFORMATION	FORM							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB345	SAMPLE ID:	DATE: 3 2-18-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB33S	SAMPLE ID:	DATE: 8 2-18-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(X)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32I	SAMPLE ID:	DATE: 3 2-18-10

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:

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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(*)	SEE ATTACHED WASTE MANAGEMENT SAMPLE									
		FIELD INFORMATION FORM									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	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	SAMPLING EQUIPMENT CODE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

APPENDIX B

Laboratory Reports – Surface Water Sample Points

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

March 29, 2010

Service Request No: J1000804

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge Landfill

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on February 18, 2010. For your reference, these analyses have been assigned our service request number **J1000804**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1000804
Project:	Trail Ridge Landfill	**Date Received:**	2/18/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 2/18/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG1000761-3 was outside the upper control criterion. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Approved by _____ **Date** 3/29/10

Method Blank Exceptions

Method Blank (MB0477) contained a low level of Copper above the Method Reporting Limit (MRL). The result for Copper in Sample SW-1 was less than the Method Detection Limit (MDL). The data is flagged with a qualifier to indicate the results are estimated values. The method blank results may indicate the potential for a false positive. The impact on the data is minimal.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 3/29/10

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:
Project: Trail Ridge Landfill

Service Request: J1000804

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1000804-001	SW-1	2/18/10	10:25
J1000804-002	SW-2	2/18/10	10:45
J1000804-003	Trip Blank	2/18/10	00:00

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-1
Lab Code: J1000804-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/20/10	02/20/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/20/10	02/20/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/20/10	02/20/10	
Chloroethane	ND	UJ	5.0	0.19	12	1	02/20/10	02/20/10	J(3)
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/20/10	02/20/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/20/10	02/20/10	
Acetone	ND	U	50	2.4	6300	1	02/20/10	02/20/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/20/10	02/20/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/20/10	02/20/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/20/10	02/20/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/20/10	02/20/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/20/10	02/20/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/20/10	02/20/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/20/10	02/20/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/20/10	02/20/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/20/10	02/20/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/20/10	02/20/10	
Chloroform	ND	U	1.0	0.10	70	1	02/20/10	02/20/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/20/10	02/20/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/20/10	02/20/10	
Benzene	ND	U	1.0	0.52	1	1	02/20/10	02/20/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/20/10	02/20/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/20/10	02/20/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/20/10	02/20/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/20/10	02/20/10	
Toluene	ND	U	1.0	0.52	40	1	02/20/10	02/20/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/20/10	02/20/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/20/10	02/20/10	
2-Hexanone	ND	U	25	0.36	280	1	02/20/10	02/20/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/20/10	02/20/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-1
Lab Code: J1000804-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/20/10	02/20/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/20/10	02/20/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/20/10	02/20/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/20/10	02/20/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/20/10	02/20/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/20/10	02/20/10	
Styrene	ND	U	1.0	0.051	100	1	02/20/10	02/20/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/20/10	02/20/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/20/10	02/20/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/20/10	02/20/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/20/10	02/20/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/20/10	02/20/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/20/10	02/20/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/20/10	02/20/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	79	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	88	82-116	Acceptable
Toluene-d8	95	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-2
Lab Code: J1000804-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/20/10	02/20/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/20/10	02/20/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/20/10	02/20/10	
Chloroethane	ND	UJ	5.0	0.19	12	1	02/20/10	02/20/10	J(3)
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/20/10	02/20/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/20/10	02/20/10	
Acetone	ND	U	50	2.4	6300	1	02/20/10	02/20/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/20/10	02/20/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/20/10	02/20/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/20/10	02/20/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/20/10	02/20/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/20/10	02/20/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/20/10	02/20/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/20/10	02/20/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/20/10	02/20/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/20/10	02/20/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/20/10	02/20/10	
Chloroform	ND	U	1.0	0.10	70	1	02/20/10	02/20/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/20/10	02/20/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/20/10	02/20/10	
Benzene	ND	U	1.0	0.52	1	1	02/20/10	02/20/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/20/10	02/20/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/20/10	02/20/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/20/10	02/20/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/20/10	02/20/10	
Toluene	ND	U	1.0	0.52	40	1	02/20/10	02/20/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/20/10	02/20/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/20/10	02/20/10	
2-Hexanone	ND	U	25	0.36	280	1	02/20/10	02/20/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/20/10	02/20/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-2
Lab Code: J1000804-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/20/10	02/20/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/20/10	02/20/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/20/10	02/20/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/20/10	02/20/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/20/10	02/20/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/20/10	02/20/10	
Styrene	ND	U	1.0	0.051	100	1	02/20/10	02/20/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/20/10	02/20/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/20/10	02/20/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/20/10	02/20/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/20/10	02/20/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/20/10	02/20/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/20/10	02/20/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/20/10	02/20/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	78	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	87	82-116	Acceptable
Toluene-d8	88	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000804-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/20/10	02/20/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/20/10	02/20/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/20/10	02/20/10	
Chloroethane	ND	UJ	5.0	0.19	12	1	02/20/10	02/20/10	J(3)
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/20/10	02/20/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/20/10	02/20/10	
Acetone	ND	U	50	2.4	6300	1	02/20/10	02/20/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/20/10	02/20/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/20/10	02/20/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/20/10	02/20/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/20/10	02/20/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/20/10	02/20/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/20/10	02/20/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/20/10	02/20/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/20/10	02/20/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/20/10	02/20/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/20/10	02/20/10	
Chloroform	ND	U	1.0	0.10	70	1	02/20/10	02/20/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/20/10	02/20/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/20/10	02/20/10	
Benzene	ND	U	1.0	0.52	1	1	02/20/10	02/20/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/20/10	02/20/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/20/10	02/20/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/20/10	02/20/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/20/10	02/20/10	
Toluene	ND	U	1.0	0.52	40	1	02/20/10	02/20/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/20/10	02/20/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/20/10	02/20/10	
2-Hexanone	ND	U	25	0.36	280	1	02/20/10	02/20/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/20/10	02/20/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: 02/18/2010
Date Received: 02/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000804-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/20/10	02/20/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/20/10	02/20/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/20/10	02/20/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/20/10	02/20/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/20/10	02/20/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/20/10	02/20/10	
Styrene	ND	U	1.0	0.051	100	1	02/20/10	02/20/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/20/10	02/20/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/20/10	02/20/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/20/10	02/20/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/20/10	02/20/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/20/10	02/20/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/20/10	02/20/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/20/10	02/20/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	82	71-122	Acceptable
4-Bromofluorobenzene	81	75-120	Acceptable
Dibromofluoromethane	88	82-116	Acceptable
Toluene-d8	92	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000761-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/20/10	02/20/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/20/10	02/20/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/20/10	02/20/10	
Chloroethane	ND	UJ	5.0	0.19	12	1	02/20/10	02/20/10	J(3)
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/20/10	02/20/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/20/10	02/20/10	
Acetone	ND	U	50	2.4	6300	1	02/20/10	02/20/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/20/10	02/20/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/20/10	02/20/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/20/10	02/20/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/20/10	02/20/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/20/10	02/20/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/20/10	02/20/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/20/10	02/20/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/20/10	02/20/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/20/10	02/20/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/20/10	02/20/10	
Chloroform	ND	U	1.0	0.10	70	1	02/20/10	02/20/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/20/10	02/20/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/20/10	02/20/10	
Benzene	ND	U	1.0	0.52	1	1	02/20/10	02/20/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/20/10	02/20/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/20/10	02/20/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/20/10	02/20/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/20/10	02/20/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/20/10	02/20/10	
Toluene	ND	U	1.0	0.52	40	1	02/20/10	02/20/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/20/10	02/20/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/20/10	02/20/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/20/10	02/20/10	
2-Hexanone	ND	U	25	0.36	280	1	02/20/10	02/20/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/20/10	02/20/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000761-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/20/10	02/20/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/20/10	02/20/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/20/10	02/20/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/20/10	02/20/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/20/10	02/20/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/20/10	02/20/10	
Styrene	ND	U	1.0	0.051	100	1	02/20/10	02/20/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/20/10	02/20/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/20/10	02/20/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/20/10	02/20/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/20/10	02/20/10	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	02/20/10	02/20/10	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/20/10	02/20/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	0.2	1	02/20/10	02/20/10	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	95	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	104	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000804
Project:	Trail Ridge Landfill	**Date Collected:**	02/18/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	SW-1	**Units:**	ug/L
Lab Code:	J1000804-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0074	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	97	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000804
Project:	Trail Ridge Landfill	**Date Collected:**	02/18/2010
Sample Matrix:	Water	**Date Received:**	02/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	SW-2	**Units:**	ug/L
Lab Code:	J1000804-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0060	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	94	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000804
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1000755-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	0.02	1	02/22/10	02/23/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	0.2	1	02/22/10	02/23/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: SW-1
Lab Code: J1000804-001

Service Request: J1000804
Date Collected: 2/18/10 1025
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:35
Arsenic, Total	6020	**0.19**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 13:28
Barium, Total	6020	**43.9**		µg/L	2.0	0.5	1	2/25/10	3/2/10 04:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:35
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 04:35
Chromium, Total	6020	**3.2**		µg/L	2.0	0.6	1	2/25/10	3/2/10 04:35
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	2/25/10	3/2/10 04:35
Copper, Total	6020	**0.9**	IV	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:35
Iron, Total	6010B	**660**		µg/L	100	10	1	2/19/10	2/24/10 20:19
Lead, Total	6020	**1**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:35
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 17:18
Nickel, Total	6020	**2.5**		µg/L	2.0	0.3	1	2/25/10	3/2/10 04:35
Selenium, Total	6020	**1.3**	I	µg/L	5.0	0.9	1	2/25/10	3/2/10 04:35
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 04:35
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 04:35
Vanadium, Total	6020	**4.1**	I	µg/L	5.0	1.2	1	2/25/10	3/2/10 04:35
Zinc, Total	6020	**11**		µg/L	10	3	1	2/25/10	3/3/10 13:28

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: SW-2
Lab Code: J1000804-002

Service Request: J1000804
Date Collected: 2/18/10 1045
Date Received: 2/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 04:40
Arsenic, Total	6020	**0.30**	I	µg/L	0.50	0.14	1	2/25/10	3/3/10 13:32
Barium, Total	6020	**110**		µg/L	2.0	0.5	1	2/25/10	3/2/10 04:40
Beryllium, Total	6020	**0.8**	I	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:40
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 04:40
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 04:40
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 04:40
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 04:40
Iron, Total	6010B	**560**		µg/L	100	10	1	2/19/10	2/24/10 20:22
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 04:40
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 17:19
Nickel, Total	6020	**2.1**		µg/L	2.0	0.3	1	2/25/10	3/2/10 04:40
Selenium, Total	6020	**1.2**	I	µg/L	5.0	0.9	1	2/25/10	3/2/10 04:40
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 04:40
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 04:40
Vanadium, Total	6020	**4.8**	I	µg/L	5.0	1.2	1	2/25/10	3/2/10 04:40
Zinc, Total	6020	**3**	I	µg/L	10	3	1	2/25/10	3/3/10 13:32

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: J1000804-MB

Service Request: J1000804
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:06
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	2/25/10	3/3/10 11:42
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	2/25/10	3/2/10 02:06
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:06
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	2/25/10	3/2/10 02:06
Chromium, Total	6020	**0.9**	I	µg/L	2.0	0.6	1	2/25/10	3/2/10 02:06
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	2/25/10	3/2/10 02:06
Copper, Total	6020	**3.7**		µg/L	2.0	0.5	1	2/25/10	3/2/10 02:06
Iron, Total	6010B	**90**	I	µg/L	100	10	1	2/19/10	2/24/10 18:48
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	2/25/10	3/2/10 02:06
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	2/22/10	2/22/10 16:39
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	2/25/10	3/2/10 02:06
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	2/25/10	3/2/10 02:06
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	2/25/10	3/2/10 02:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	2/25/10	3/2/10 02:06
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	2/25/10	3/2/10 02:06
Zinc, Total	6020	ND	U	µg/L	10	3	1	2/25/10	3/3/10 11:42

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000804
Project:	Trail Ridge Landfill	**Date Collected:**	2/18/2010
Sample Matrix:	Water	**Date Received:**	2/18/2010

Hardness, Total

Prep Method:	METHOD	Units:	mg/L (ppm)
Analysis Method:	SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SW-1	J1000804-001	1.7	0.08	1	2/19/2010	2/24/2010	13	
SW-2	J1000804-002	1.7	0.08	1	2/19/2010	2/24/2010	10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : SW-1
Lab Code : J1000804-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	02/19/10 13:50	29	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.01	1	02/22/10 16:47	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	03/01/10 09:55	14	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	1.5	1	03/01/10 13:50	98	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	2.2	2.2	2.2	02/26/10 15:30	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	2	2	2	02/18/10 15:15	U	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 10:25	104	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 18:32	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.1	0.09	1	03/04/10 11:30	1.0	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.005	0.003	1	02/18/10 17:12	0.0064	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 10:25	5.4	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 10:25	4.34	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	03/01/10 15:36	0.023	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	82	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	02/23/10 12:20	2.0	i
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 10:25	8.8	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 10:25	1.2	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : 02/18/10
Date Received : 02/18/10

Inorganic Parameters

Sample Name : SW-2
Lab Code : J1000804-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	02/19/10 13:50	3.1	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.01	1	02/22/10 16:47	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	03/01/10 09:55	37	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	1.5	1	03/01/10 13:50	66.0	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1.1	1.1	1.1	02/26/10 15:30	10	
Coliform, Fecal	CFU/100mL	SM 9222 D	1	1	1	02/18/10 15:15	175	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/18/10 10:45	55	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 18:47	0.26	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.1	0.09	1	03/04/10 11:30	0.76	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.005	0.003	1	02/18/10 17:12	0.0058	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/18/10 10:45	5.3	
pH (Field)	pH UNITS	150.1	-	-	1	02/18/10 10:45	4.68	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	03/01/10 15:36	0.020	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	99	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	02/23/10 12:20	20	
Temperature (Field)	DEG C	170.1	-	-	1	02/18/10 10:45	13.7	
Turbidity (Field)	NTU	180.1	-	-	1	02/18/10 10:45	9.3	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1000804-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	02/19/10 13:50	U	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.01	1	02/22/10 16:47	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	03/01/10 09:55	U	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	1.5	1	03/01/10 13:50	U	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	02/26/10 15:30	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	1	1	1	02/18/10 13:45	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/18/10 13:48	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.1	0.09	1	03/04/10 11:30	U	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.005	0.003	1	02/18/10 17:12	U	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	03/01/10 15:36	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	02/25/10 15:00	U	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	02/23/10 12:20	U	

Report By: Palimi

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
SW-1	J1000804-001	79	88	88	95
SW-2	J1000804-002	78	85	87	88
Trip Blank	J1000804-003	82	81	88	92
Method Blank	JWG1000761-4	95	85	96	104
Lab Control Sample	JWG1000761-3	92	92	93	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Extracted: 02/20/2010
Date Analyzed: 02/20/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000761

Analyte Name	Lab Control Sample JWG1000761-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	20.5	20.0	102	67-135
Vinyl Chloride	22.0	20.0	110	78-132
Bromomethane	22.0	20.0	110	79-130
Chloroethane	30.0	20.0	150 *	74-126
Trichlorofluoromethane	20.0	20.0	100	74-134
1,1-Dichloroethene	22.9	20.0	115	78-130
Acetone	129	100	129	67-133
Iodomethane (Methyl Iodide)	118	100	118	68-134
Carbon Disulfide	119	100	119	76-138
Methylene Chloride	21.6	20.0	108	72-124
trans-1,2-Dichloroethene	20.5	20.0	102	77-124
Acrylonitrile	101	100	101	77-127
1,1-Dichloroethane	19.9	20.0	99	80-128
Vinyl Acetate	100	100	100	61-148
cis-1,2-Dichloroethene	21.1	20.0	105	80-126
2-Butanone (MEK)	103	100	103	73-127
Bromochloromethane	21.7	20.0	109	79-129
Chloroform	20.3	20.0	101	83-124
1,1,1-Trichloroethane (TCA)	20.7	20.0	103	79-124
Carbon Tetrachloride	21.3	20.0	107	81-125
Benzene	21.6	20.0	108	79-119
1,2-Dichloroethane (EDC)	20.5	20.0	103	80-124
Trichloroethene (TCE)	21.1	20.0	105	76-124
1,2-Dichloropropane	22.0	20.0	110	79-123
Dibromomethane	20.3	20.0	102	83-123
Bromodichloromethane	20.2	20.0	101	81-123
cis-1,3-Dichloropropene	21.2	20.0	106	86-123
4-Methyl-2-pentanone (MIBK)	101	100	101	72-136
Toluene	21.0	20.0	105	86-117
trans-1,3-Dichloropropene	20.4	20.0	102	83-124
1,1,2-Trichloroethane	19.9	20.0	100	86-114
Tetrachloroethene (PCE)	21.9	20.0	109	80-121
2-Hexanone	103	100	103	71-138
Dibromochloromethane	20.1	20.0	100	82-121
1,2-Dibromoethane (EDB)	19.2	20.0	96	88-117
Chlorobenzene	21.1	20.0	106	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Extracted: 02/20/2010
Date Analyzed: 02/20/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000761

Analyte Name	Lab Control Sample JWG1000761-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.7	20.0	104	85-117
Ethylbenzene	21.6	20.0	108	90-118
m,p-Xylenes	42.6	40.0	106	86-121
o-Xylene	21.0	20.0	105	89-119
Styrene	21.3	20.0	107	89-122
Bromoform	19.4	20.0	97	68-129
1,1,2,2-Tetrachloroethane	20.8	20.0	104	83-120
1,2,3-Trichloropropane	20.2	20.0	101	83-123
1,4-Dichlorobenzene	20.0	20.0	100	83-113
trans-1,4-Dichloro-2-butene	21.1	20.0	106	53-143
1,2-Dichlorobenzene	19.6	20.0	98	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.7	20.0	88	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SW-1	J1000804-001	97
SW-2	J1000804-002	94
Method Blank	JWG1000755-4	114
SW-1MS	JWG1000755-1	85
SW-1DMS	JWG1000755-2	98
Lab Control Sample	JWG1000755-3	97

Surrogate Recovery Control Limits (%)

Sur1 =	1,1,1,2-Tetrachloroethane	77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Extracted: 02/22/2010
Date Analyzed: 02/23/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: SW-1
Lab Code: J1000804-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low
Extraction Lot: JWG1000755

Analyte Name	Sample Result	SW-1MS JWG1000755-1 Matrix Spike			SW-1DMS JWG1000755-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.0164	0.0147	111	0.0173	0.0149	116	65-135	5	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0159	0.0147	108	0.0172	0.0149	115	65-135	8	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Extracted: 02/22/2010
Date Analyzed: 02/23/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000755

	Lab Control Sample JWG1000755-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0151	0.0143	106	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0159	0.0143	111	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000804
Date Analyzed: 2/22/10 - 3/ 3/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000804-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.3**	50.0	101	80 - 120
Arsenic, Total	6020	**49.0**	50.0	98	80 - 120
Barium, Total	6020	**52.3**	50.0	105	80 - 120
Beryllium, Total	6020	**46.8**	50.0	94	80 - 120
Cadmium, Total	6020	**49.5**	50.0	99	80 - 120
Chromium, Total	6020	**51.4**	50.0	103	80 - 120
Cobalt, Total	6020	**50.3**	50.0	101	80 - 120
Copper, Total	6020	**49.8**	50.0	100	80 - 120
Iron, Total	6010B	**1990**	2000	99	80 - 120
Lead, Total	6020	**55.1**	50.0	110	80 - 120
Mercury, Total	7470A	**5.16**	5.00	103	80 - 120
Nickel, Total	6020	**51.1**	50.0	102	80 - 120
Selenium, Total	6020	**46.2**	50.0	92	80 - 120
Silver, Total	6020	**49.3**	50.0	99	80 - 120
Thallium, Total	6020	**50.8**	50.0	102	80 - 120
Vanadium, Total	6020	**51.1**	50.0	102	80 - 120
Zinc, Total	6020	**95.1**	100	95	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : 02/18/10
Date Received : 02/18/10
Date Extracted : NA
Date Analyzed : 02/23-03/01/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : J1000804-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	98	110	104	12	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	2.2	U	U	U	-	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2.0	2.7	2.35	30	i

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : 02/18/10
Date Received : 02/18/10
Date Extracted : NA
Date Analyzed : 03/01/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : J1000804-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	50	98	149	102	85-115	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : 02/18/10
Date Received : 02/18/10
Date Extracted : NA
Date Analyzed : 02/25/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-2
Lab Code : J1000804-002DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	99	110	104.5	11	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000804
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 02/18-03/01/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1000804-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	198	178	90	85-115	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	50	48.4	97	90-110	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	85.8	85.0	99	85-115	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.36	107	90-110	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.500	0.499	100	90-110	
Phosphorus, Total	mg/L (ppm)	365.1	0.500	0.507	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	302	101	85-115	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	80	80.0	100	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: ~~Hat~~ HDR Service Request #: J1000804

Project: Trail Ridge

Cooler received on 2-18-10 and opened on 2-18-10 By GB

COURIER: CAS UPS FEDEX Client Other _____ Airbill #_____

1	Were custody seals on outside of cooler?	Yes	No						
	If yes, how many and where?	#:___ on lid		other					
2	Were seals intact and signature and date correct?	Yes	No	N/A					
3	Were custody papers properly filled out?	Yes	No	N/A					
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	1.9							
5	Thermometer ID	IR5							
6	Temperature Blank Present?	Yes	No						
7	Were Ice or Ice Packs present	Ice	Ice Packs	No					
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A					
9	Type of packing material present	bubblewrap							
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A					
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A					
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A					
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A					
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2								
	Preservative additions noted below								
14	Were all samples received within analysis holding times?	Yes	No	N/A					
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A					
16	Where did the bottles originate?	CAS	Client						

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1000809 Date: 2-18-10 Initials: GR

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Container	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	500mL P	500mL G	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	100ml P	Ziplock P	Misc.	
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate			
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A	
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-					-		-	
-001	3	3			1		1										1			1		1						1			-001
-002	3	3			1		1										1			1		1						1			-002
-003		2																														-003
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR # J1000804
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC 200 W. FORSYTH ST, STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Numbe[redacted]

PRESERVATIVE: — | HCl | HCl | HNO3 | H2SO4 | — | — | N2 S2O3

NUMBER OF CONTAINERS | 8011 | 8260 | TOC | METALS | NH3, TKN, TEL P, COD | TDS, TSS, NO3, BOD | chlorophyll-a | Fecal Coliform

1. NONE
2. HCL
3. HNO_3
4. H_2SO_4
5. NaOH
6. Zn. Acetate
7. MeOH
8. $NaHSO_4$
9. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX		3	3	1	1	1	1	1	1
SW-1		2-18	1025	SW	12	3	3	1	1	1	1	1	1
SW-2		2-18	1045	SW	12	3	3	1	1	1	1	1	1
TRIP		2-18	—	W	2		✓						

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ **RUSH** (SURCHARGES APPLY)
_X_ **STANDARD**
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Simeon Stram	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 2-18-10 1050	Date/Time: 2/19/10 10:50	Date/Time: 2/19/10 11:55	Date/Time: 2/18/10 1155	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: SW-1 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	1025				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —

Sampling Device: X

X-Other: Sample Bottles

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/18/10	4.34	164	8.8	1.2	5.4		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: Yellow tint Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Clear 40s°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PRO-TECH

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: SW-2

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/18/10	1045				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —

Sampling Device: X

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Bottles

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/18/10	4.68	55	13.7	9.3	5.3		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: Yellow/Brown Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0.5 Outlook: Clear 35°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/18/10	DAN ARMOUR		PRO-TECH

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

March 29, 2010

Service Request No: J1000908

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge Landfill

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on February 26, 2010. For your reference, these analyses have been assigned our service request number **J1000908**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1000908
Project:	Trail Ridge Landfill	**Date Received:**	2/26/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

One water sample and one trip blank were received for analysis at Columbia Analytical Services on 2/26/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The primary evaluation criterion was exceeded for the following analytes in Continuing Calibration Verification (CCV) JWG1000844-2: trans-1,4-Dichloro-2-butene and 1,2-Dibromo-3-chloropropane (DBCP). The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Approved by _____ **Date** 3/29/10

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 3/29/10

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:
Project: Trail Ridge Landfill

Service Request: J1000908

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1000908-001	SW-03	2/26/10	07:50
J1000908-002	Trip Blank	2/26/10	00:00

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: 02/26/2010
Date Received: 02/26/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-03
Lab Code: J1000908-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: 02/26/2010
Date Received: 02/26/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-03
Lab Code: J1000908-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1		1	02/26/10	02/26/10	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	5.0	0.26	0.2	1	02/26/10	02/26/10	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: 02/26/2010
Date Received: 02/26/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000908-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: 02/26/2010
Date Received: 02/26/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1000908-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1		1	02/26/10	02/26/10	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	5.0	0.26	0.2	1	02/26/10	02/26/10	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	89	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	102	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000843-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloromethane	ND	U	1.0	0.17	2.7	1	02/26/10	02/26/10	
Vinyl Chloride	ND	U	1.0	0.25	1	1	02/26/10	02/26/10	
Bromomethane	ND	U	1.0	0.14	9.8	1	02/26/10	02/26/10	
Chloroethane	ND	U	5.0	0.19	12	1	02/26/10	02/26/10	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	02/26/10	02/26/10	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	02/26/10	02/26/10	
Acetone	ND	U	50	2.4	6300	1	02/26/10	02/26/10	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	02/26/10	02/26/10	
Carbon Disulfide	ND	U	10	0.84	700	1	02/26/10	02/26/10	
Methylene Chloride	ND	U	5.0	0.72	5	1	02/26/10	02/26/10	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	02/26/10	02/26/10	
Acrylonitrile	ND	U	10	0.59	0.06	1	02/26/10	02/26/10	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	02/26/10	02/26/10	
Vinyl Acetate	ND	U	10	0.60	88	1	02/26/10	02/26/10	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	02/26/10	02/26/10	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	02/26/10	02/26/10	
Bromochloromethane	ND	U	5.0	0.14	91	1	02/26/10	02/26/10	
Chloroform	ND	U	1.0	0.10	70	1	02/26/10	02/26/10	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	02/26/10	02/26/10	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	02/26/10	02/26/10	
Benzene	ND	U	1.0	0.52	1	1	02/26/10	02/26/10	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	02/26/10	02/26/10	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	02/26/10	02/26/10	
Dibromomethane	ND	U	5.0	0.12	70	1	02/26/10	02/26/10	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	02/26/10	02/26/10	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	02/26/10	02/26/10	
Toluene	ND	U	1.0	0.52	40	1	02/26/10	02/26/10	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	02/26/10	02/26/10	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	02/26/10	02/26/10	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	02/26/10	02/26/10	
2-Hexanone	ND	U	25	0.36	280	1	02/26/10	02/26/10	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	02/26/10	02/26/10	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1000843-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	02/26/10	02/26/10	
Chlorobenzene	ND	U	1.0	0.15	100	1	02/26/10	02/26/10	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	02/26/10	02/26/10	
Ethylbenzene	ND	U	1.0	0.10	30	1	02/26/10	02/26/10	
m,p-Xylenes	ND	U	2.0	0.22	20	1	02/26/10	02/26/10	
o-Xylene	ND	U	1.0	0.10	20	1	02/26/10	02/26/10	
Styrene	ND	U	1.0	0.051	100	1	02/26/10	02/26/10	
Bromoform	ND	U	2.0	0.12	4.4	1	02/26/10	02/26/10	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	02/26/10	02/26/10	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	02/26/10	02/26/10	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	02/26/10	02/26/10	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1		1	02/26/10	02/26/10	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	02/26/10	02/26/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	5.0	0.26	0.2	1	02/26/10	02/26/10	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	96	71-122	Acceptable
4-Bromofluorobenzene	89	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	101	88-117	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: 02/26/2010
Date Received: 02/26/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: SW-03
Lab Code: J1000908-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0073	0.02	1	03/10/10	03/10/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	0.2	1	03/10/10	03/10/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	99	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1000908
Project:	Trail Ridge Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1000972-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	0.02	1	03/10/10	03/10/10	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	0.2	1	03/10/10	03/10/10	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	102	77-150	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Sample Name: SW-03
Lab Code: J1000908-001

Service Request: J1000908
Date Collected: 2/26/10 0750
Date Received: 2/26/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**2.2**		µg/L	2.0	0.3	1	3/ 2/10	3/8/10 16:30
Arsenic, Total	6020	**2.36**		µg/L	0.50	0.14	1	3/ 2/10	3/8/10 16:30
Barium, Total	6020	**39.2**		µg/L	2.0	0.5	1	3/ 2/10	3/8/10 16:30
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	3/ 2/10	3/8/10 16:30
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	3/ 2/10	3/8/10 16:30
Chromium, Total	6020	**16.9**		µg/L	2.0	0.6	1	3/ 2/10	3/8/10 16:30
Cobalt, Total	6020	**1.1**		µg/L	1.0	0.2	1	3/ 2/10	3/8/10 16:30
Copper, Total	6020	**6.0**		µg/L	2.0	0.5	1	3/ 2/10	3/8/10 16:30
Iron, Total	6010B	**3390**		µg/L	50	4	1	3/ 1/10	3/2/10 13:50
Lead, Total	6020	**17.1**		µg/L	1.0	0.3	1	3/ 2/10	3/8/10 16:30
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 3/10	3/3/10 16:36
Nickel, Total	6020	**7.2**		µg/L	2.0	0.3	1	3/ 2/10	3/8/10 16:30
Selenium, Total	6020	**2.5**	I	µg/L	5.0	0.9	1	3/ 2/10	3/8/10 16:30
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	3/ 2/10	3/8/10 16:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	3/ 2/10	3/8/10 16:30
Vanadium, Total	6020	**26.1**		µg/L	5.0	1.2	1	3/ 2/10	3/8/10 16:30
Zinc, Total	6020	**20**		µg/L	10	3	1	3/ 2/10	3/8/10 16:30

Comments:

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1000908-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	3/ 2/10	3/8/10 16:15
Arsenic, Total	6020	**0.46**	I	µg/L	0.50	0.14	1	3/ 2/10	3/8/10 16:15
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	3/ 2/10	3/8/10 16:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	3/ 2/10	3/8/10 16:15
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	3/ 2/10	3/8/10 16:15
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	3/ 2/10	3/8/10 16:15
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	3/ 2/10	3/8/10 16:15
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	3/ 2/10	3/8/10 16:15
Iron, Total	6010B	**8**	I	µg/L	50	4	1	3/ 1/10	3/2/10 12:46
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	3/ 2/10	3/8/10 16:15
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	3/ 3/10	3/3/10 16:11
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	3/ 2/10	3/8/10 16:15
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	3/ 2/10	3/8/10 16:15
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	3/ 2/10	3/8/10 16:15
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	3/ 2/10	3/8/10 16:15
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	3/ 2/10	3/8/10 16:15
Zinc, Total	6020	ND	U	µg/L	10	3	1	3/ 2/10	3/8/10 16:15

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1000908
Project:	Trail Ridge Landfill	**Date Collected:**	2/26/2010
Sample Matrix:	Water	**Date Received:**	2/26/2010

Hardness, Total

Prep Method:	METHOD	Units:	mg/L (ppm)
Analysis Method:	SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SW-03	J1000908-001	1.7	0.08	1	3/1/2010	3/3/2010	146	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000908
Date Collected : 02/26/10
Date Received : 02/26/10

Inorganic Parameters

Sample Name : SW-03
Lab Code : J1000908-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	02/26/10 15:00	2.4	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.01	1	03/08/10 14:15	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	03/04/10 18:23	16	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	1.5	1	03/01/10 13:50	110	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	9.1	9.1	9.1	03/11/10 10:20	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	10	10	10	02/26/10 12:15	450	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	02/26/10 07:50	480	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/26/10 20:30	3.4	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.1	0.09	1	03/08/10 14:10	5.4	
Nitrogen, Total Kjeldahl (TKN)	mg/L (ppm)	351.2	0.1	0.09	1	03/04/10 11:16	2.1	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.005	0.003	1	02/26/10 17:53	0.0066	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	02/26/10 07:50	5.6	
pH (Field)	pH UNITS	150.1	-	-	1	02/26/10 07:50	7.72	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	03/01/10 15:36	0.20	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	03/02/10 17:00	370	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	03/02/10 13:15	23	
Temperature (Field)	DEG C	170.1	-	-	1	02/26/10 07:50	9.2	
Turbidity (Field)	NTU	180.1	-	-	1	02/26/10 07:50	333.2	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000908
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1000908-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	02/26/10 15:00	U	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.01	1	03/08/10 14:15	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	03/04/10 18:23	U	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	5	1.5	1	03/01/10 13:50	U	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	03/11/10 10:20	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	1	1	1	02/26/10 12:15	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	02/26/10 18:00	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.1	0.09	1	03/08/10 14:10	U	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.005	0.003	1	02/26/10 17:53	U	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	03/01/10 15:36	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	03/02/10 17:00	U	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	03/02/10 13:15	U	

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
SW-03	J1000908-001	93	88	93	103
Trip Blank	J1000908-002	93	89	93	102
Method Blank	JWG1000843-4	96	89	97	101
Lab Control Sample	JWG1000843-3	97	97	101	104

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Extracted: 02/26/2010
Date Analyzed: 02/26/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000843

Analyte Name	Lab Control Sample JWG1000843-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	17.9	20.0	89	67-135
Vinyl Chloride	20.0	20.0	100	78-132
Bromomethane	17.6	20.0	88	79-130
Chloroethane	24.8	20.0	124	74-126
Trichlorofluoromethane	20.1	20.0	100	74-134
1,1-Dichloroethene	19.4	20.0	97	78-130
Acetone	96.4	100	96	67-133
Iodomethane (Methyl Iodide)	91.1	100	91	68-134
Carbon Disulfide	111	100	111	76-138
Methylene Chloride	20.5	20.0	103	72-124
trans-1,2-Dichloroethene	21.2	20.0	106	77-124
Acrylonitrile	101	100	101	77-127
1,1-Dichloroethane	19.3	20.0	96	80-128
Vinyl Acetate	88.0	100	88	61-148
cis-1,2-Dichloroethene	20.0	20.0	100	80-126
2-Butanone (MEK)	103	100	103	73-127
Bromochloromethane	20.4	20.0	102	79-129
Chloroform	18.7	20.0	93	83-124
1,1,1-Trichloroethane (TCA)	18.8	20.0	94	79-124
Carbon Tetrachloride	19.0	20.0	95	81-125
Benzene	19.9	20.0	100	79-119
1,2-Dichloroethane (EDC)	18.7	20.0	93	80-124
Trichloroethene (TCE)	20.2	20.0	101	76-124
1,2-Dichloropropane	20.4	20.0	102	79-123
Dibromomethane	19.5	20.0	97	83-123
Bromodichloromethane	19.3	20.0	96	81-123
cis-1,3-Dichloropropene	18.8	20.0	94	86-123
4-Methyl-2-pentanone (MIBK)	101	100	101	72-136
Toluene	19.5	20.0	98	86-117
trans-1,3-Dichloropropene	18.9	20.0	94	83-124
1,1,2-Trichloroethane	19.8	20.0	99	86-114
Tetrachloroethene (PCE)	20.0	20.0	100	80-121
2-Hexanone	97.9	100	98	71-138
Dibromochloromethane	20.3	20.0	102	82-121
1,2-Dibromoethane (EDB)	20.3	20.0	101	88-117
Chlorobenzene	20.3	20.0	101	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Extracted: 02/26/2010
Date Analyzed: 02/26/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000843

Analyte Name	Lab Control Sample JWG1000843-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.9	20.0	104	85-117
Ethylbenzene	19.5	20.0	98	90-118
m,p-Xylenes	41.3	40.0	103	86-121
o-Xylene	19.6	20.0	98	89-119
Styrene	21.1	20.0	106	89-122
Bromoform	20.4	20.0	102	68-129
1,1,2,2-Tetrachloroethane	19.4	20.0	97	83-120
1,2,3-Trichloropropane	19.9	20.0	100	83-123
1,4-Dichlorobenzene	19.5	20.0	98	83-113
trans-1,4-Dichloro-2-butene	17.1	20.0	86	53-143
1,2-Dichlorobenzene	20.5	20.0	103	84-115
1,2-Dibromo-3-chloropropane (DBCP	21.5	20.0	108	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SW-03	J1000908-001	99
Method Blank	JWG1000972-4	102
SW-03MS	JWG1000972-1	103
SW-03DMS	JWG1000972-2	96
Lab Control Sample	JWG1000972-3	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Extracted: 03/10/2010
Date Analyzed: 03/10/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: SW-03
Lab Code: J1000908-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low
Extraction Lot: JWG1000972

Analyte Name	Sample Result	SW-03MS JWG1000972-1 Matrix Spike			SW-03DMS JWG1000972-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.0163	0.0148	110	0.0156	0.0148	105	65-135	4	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0185	0.0148	125	0.0172	0.0148	116	65-135	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Extracted: 03/10/2010
Date Analyzed: 03/10/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1000972

Analyte Name	Lab Control Sample JWG1000972-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0150	0.0143	105	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0176	0.0143	123	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge Landfill
Sample Matrix: Water

Service Request: J1000908
Date Analyzed: 3/ 2/10 - 3/ 8/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1000908-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**54.4**	50.0	109	80 - 120
Arsenic, Total	6020	**51.2**	50.0	102	80 - 120
Barium, Total	6020	**55.0**	50.0	110	80 - 120
Beryllium, Total	6020	**52.5**	50.0	105	80 - 120
Cadmium, Total	6020	**52.1**	50.0	104	80 - 120
Chromium, Total	6020	**55.7**	50.0	111	80 - 120
Cobalt, Total	6020	**54.4**	50.0	109	80 - 120
Copper, Total	6020	**53.4**	50.0	107	80 - 120
Iron, Total	6010B	**2000**	2000	100	80 - 120
Lead, Total	6020	**56.4**	50.0	113	80 - 120
Mercury, Total	7470A	**5.01**	5.00	100	80 - 120
Nickel, Total	6020	**54.7**	50.0	109	80 - 120
Selenium, Total	6020	**47.8**	50.0	96	80 - 120
Silver, Total	6020	**52.3**	50.0	105	80 - 120
Thallium, Total	6020	**55.7**	50.0	111	80 - 120
Vanadium, Total	6020	**54.8**	50.0	110	80 - 120
Zinc, Total	6020	**100**	100	100	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000908
Date Collected : 02/26/10
Date Received : 02/26/10
Date Extracted : 02/26/10
Date Analyzed : 03/02-11/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-03
Lab Code : J1000908-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	9.1	U	U	U	-	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	370	390	380	5	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	23	19	21	19	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Jacksonville, City of
Project Name : Trail Ridge Landfill
Project Number : NA
Sample Matrix : WATER

Service Request : J1000908
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 02/26-03/04/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1000908-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	198	173	87	85-115	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	50	47.1	94	90-110	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	85.8	85.0	99	85-115	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.26	105	90-110	
Orthophosphate as Phosphorus	mg/L (ppm)	365.1	0.500	0.478	96	90-110	
Phosphorus, Total	mg/L (ppm)	365.1	0.500	0.507	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	284	95	85-115	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	80	79.0	99	85-115	

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: HDR INC Service Request #: J10050J

Project: TRAILRIDGE

Cooler received on 2/26/10 and opened on 2/26/10 by SM

COURIER: CAS UPS FEDEX Client Other COURIER Airbill #

1	Were custody seals on outside of cooler?	Yes	No			
	If yes, how many and where?	#: 1	on lid	other		
2	Were seals intact and signature and date correct?	Yes	No	N/A		
3	Were custody papers properly filled out?	Yes	No	N/A		
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	1.7				
5	Thermometer ID	116				
6	Temperature Blank Present?	Yes	No			
7	Were Ice or Ice Packs present	Ice	Ice Packs	No		
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A		
9	Type of packing material present	BUBBLE WRAP + NOTHING				
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A		
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A		
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A		
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A		
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2					
	Preservative additions noted below					
14	Were all samples received within analysis holding times?	Yes	No	N/A		
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A		
16	Where did the bottles originate?	CAS	Client			

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

SR # : J 1000908

Date: 2/26/10

Initials: SM

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Container	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	500mL P	500mL G	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	100ml P	Ziplock P	Misc. Misc.	
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate			
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A	
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-	
-001	3	3			1		1										1			1		1							1			-001
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30

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR # J1000908

CAS Contact [redacted]

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR, INC	
200 W. FORSYTH, STE 800	
JACKSONVILLE, FL 32202	
Phone #: 904 598 8953	FAX#:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number a[redacted]

PRESERVATIVE: — | HCl | HCl | HNO3 | H2SO4 | — | — | NaOH

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8011	8260	TOC	METALS	NH3, TKN, NO2+NO3, COD	NO3, ORTHO, TDS, TSS, DOC	CHLOROPHYLL-A	FECAL Coliform	REMARKS/ ALTERNATE DESCRIPTION
					12	3	3	1	1	1	1	1	1	
SW-03		2-26	0750	SW	1		3							
TRIP		2-26	—	W										

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
(X) STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: CARRIER	Printed Name: CARRIER	Printed Name: Sumer OSTROM	Printed Name	Printed Name
Firm: PRO TECH	Firm	Firm	Firm: CAS	Firm	Firm
Date/Time: 2-26-10 / 0805	Date/Time	Date/Time	Date/Time: 2/26/10 0925	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE
Site No.:
Sample Point: SW-03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/26/10	07:50				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device: X

Filter Type: A-In-line Disposable B-Pressure C-Vacuum X-Other ____

X-Other: Sample Bottles

Sample Tube Type: A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/26/10	7.72	480	9.2	3332	5.6		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Cloudy Odor: ____ Color: LT. BROWN Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 0-5 Outlook: clear 30°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/26/10	DAN ARMOUR		PRO-TECH
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy