

# **TRAIL RIDGE LANDFILL**

## **Semi-Annual Water Quality Data Report**

*Prepared for:*

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

FDEP Permit Number    0013493-010-SC  
WACS ID Number        NED/16/00033628

*Prepared by:*

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**October 2009**

DEP Form # <u>62-520.900(2)</u>
Form Title <u>Ground Water Monitoring Report</u>
Effective Date _____
DEP Application No. _____

## Florida Department of Environmental Protection

Bob Martinez Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

# GROUND WATER MONITORING REPORT

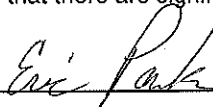
## Rule 62-520.600(11)

**PART I GENERAL INFORMATION**

- (1) Facility Name Trail Ridge Landfill  
 Address 5110 U.S. Highway 301  
 City Baldwin Zip FL 32234-3608  
 Telephone Number ( 904 )289-9100
- (2) The GMS Identification Number NED/16/00033628
- (3) DEP Permit Number 0013493-017-SO
- (4) Authorized Representative Name Eric Parker/ Environ. Protection Manager, Nor Florida Region  
 Address 5110 U.S. Highway 301  
 City Baldwin Zip FL 32234-3608  
 Telephone Number ( 904 ) 289-9100 Ext. 212
- (5) Type of Discharge None
- (6) Method of Discharge NA

**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 submitting false information, including the possibility of fine and imprisonment.

Date: 10/12/09 \_\_\_\_\_  
  
Signature of Owner or Authorized Representative

**PART II QUALITY ASSURANCE REQUIREMENTS**

Sample Organization      Comp QAP # 880633G

Analytical Lab            Comp QAP # /HRS Certification # \_\_\_\_\_

                                  \*Comp QAP # /HRS Certification # \_\_\_\_\_

Lab Name Columbia Analytical Services

Address 9143 Phillips Hwy, Suite 200, Jacksonville, FL 32256

Phone Number ( 904 )739-2277



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## EXECUTIVE SUMMARY

### Semi-Annual Water Quality Data Report for Trail Ridge Landfill

This semi-annual monitoring report was completed on behalf of the Trail Ridge Landfill (Trail Ridge) located in Jacksonville, Duval County, Florida. The data reviewed in this water quality monitoring report were obtained during the routine semi-annual detection monitoring event conducted in July 2009. The groundwater at Trail Ridge is monitored by thirty-seven wells including five background wells. Two surface water sample points, one condensate, and two leachate samples are also monitored in accordance with Permit Number 0013493-010-SC. The groundwater wells are monitored semi-annually for the detection monitoring parameters listed under Attachment 3 and Specific Condition 48 of the Permit. The surface water samples are monitored semi-annually for the detection monitoring parameters listed under Attachment 4 and Specific Condition 49 of the Permit. Leachate is monitored annually and reported during the 2nd semiannual sampling event for the parameters listed in Specific Condition 39 of the Permit and condensate is monitored semiannually for the parameters listed in Specific Condition 14d.

A detailed review of the monitoring data indicates that iron exceeded the Secondary Drinking Water Standard (SDWS) in samples from 29 of the 37 monitoring wells including all five 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 33 of the 37 wells was below the SDWS of 6.5 S.U., including five background wells (i.e., pH's below 6.5 S.U. are naturally occurring).

Consistent with historical data, samples from wells MWB-12(S)c, MWB-13(S)c, MWB-29(I)c, and MWB-32(I)d indicate a sample turbidity above 20 NTU's. The highest turbidity (103.2 NTU's) was measured at MWB-32(I)d.

In the sample from well MWB-34(S)d, TDS concentrations were above the SDWS. The TDS concentration at MWB-34S is continuing to decrease from the historic highs measured in July 2005.

Vanadium was detected in the sample from two wells (MWB-12(S)c and MWB-13(S)c) at a level (112 and 61.6 µg/L, respectively) above the GCTL. Vanadium has been consistently detected at MWB-12(S)c and MWB-13(S)c. We note however, the sample turbidity at these wells were 54.9 and 24.8 NTU's, respectively, which may have biased results high.

Several VOCs were detected at trace levels slightly above laboratory detection limits but below the reporting limit. VOC's detected at trace levels include acetone, ethylbenzene, m&p-xylenes, o-xylene, and toluene from at least one of the three wells: MWB-2S(S)c, MWB13(S)c, and MB-32(S)c. These concentrations are substantially below their respective groundwater standards.

At SW-1, the dissolved oxygen level was below 5 mg/L and the iron concentration was above the Class III surface water standard. The field 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-2 was detected but was below the 800 cfu/100 ml maximum Class III standard. These detections are consistent with historical conditions. The remainder of the data meets the water quality standards.

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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 semi-annual 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 0013493-010-SC, issued December 19, 2003 and the applicable provisions of previous permits. Sampling and analysis was conducted in accordance with the permit in effect at the time of sampling. We note a new permit was issued for the facility on September 16<sup>th</sup>, 2009, after this sampling event had been conducted.

The data submitted in this groundwater quality assessment were obtained during the routine semi-annual detection-monitoring event conducted on July 23-29, 2009. During this monitoring period, groundwater wells were monitored for the parameters listed in Attachment III of the permit. In conjunction with the groundwater monitoring, surface water samples were collected and analyzed for the parameters listed in Attachment IV of the permit. The condensate sample was tested for Toxicity Characteristics Leaching Procedure (TCLP) parameters. Two leachate samples were tested for parameters listed under Specific Condition 39 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 48 of the permit not utilized unless required for assessment monitoring. Monitoring well designations are shown in the following tables.

<b>Location</b>	<b>Well ID</b>
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

<b>Specific Condition 48: These wells shall be maintained but will not be utilized unless required for assessment monitoring.</b>	
<b>Location</b>	<b>Well ID</b>
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 semi-annually 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 two surface water monitoring sites (designated SW-1 and SW-2). 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

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does not receive run-off directly from the landfill area. In accordance with Chapter 62-701, FAC, surface water monitoring is performed on a semi-annual basis in conjunction with the groundwater monitoring schedule.

In accordance with Specific Condition 39 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 14, gas condensate from the pump station is sampled semiannually for Toxicity Characteristic Leaching Procedure (TCLP) parameters with the results submitted to the FDEP no later than June 30 and December 31 of each year.

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 FDEP Semi-Annual Groundwater Parameter Monitoring Report forms have been completed and are included in Appendix A. The laboratory reports for the groundwater samples are included in Appendix B.

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## 2.1 Field Data

On July 23 to 29, 2009, 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 July 23th), 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 intermediate and deep zones, on average, having a slightly flatter gradient than the shallow zone. 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 (2.1 to 4.9 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 C). 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 turbidity exceeded 20 NTU's in samples from monitoring wells: MWB-12(S)c (45.3 NTU), MWB-13(S)c (42.1 NTU), MWB-29(I)c (58.3 NTU), and MWB-32(I)d (103.2 NTU). The groundwater turbidity levels in all other wells that were sampled were below 20 NTU at each of the groundwater wells sampled during this monitoring period. Elevated turbidity in MWB-32(I)d indicates high concentration of suspended particulate in these samples. These turbidity levels are consistent with historic sampling events.

The pH levels reported for the groundwater samples collected at five background wells (MWB-2(S)b, MWB-2(I)b, MWB-3(S)b, MWB-3(I)b and MWB-31(D)c 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

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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 all five background monitoring wells (MWB-2(S)b, MWB-2(I)b, MWB-3(S)b, MWB-3(I)b and MWB-31(D)b and 22 compliance/detection wells (MWB-7(I)c, MWB-11(S)c, MWB-11(IR)c, MWB-12(I)c, MWB-12(D)c, MWB-13(S)c, MWB-13(I)c, MWB-17(I)c, MWB-17(D)c, MWB-19(S)c, MWB-19(I)c, MWB-19(D)c, MWB-20(S)c, MWB-27(I)c, MWB-27(D)c, MWB-29(S)c, MWB-29(I)c, MWB-29(D)c, MWB-32(I)d, MWB-32(D)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 five background wells. As previously discussed turbidity levels of some of these samples were elevated including MWB-12(S)c, MWB-13(S)c, MWB-29(I)c and MWB-32(I)d, which will bias results high.
- TDS was detected in the sample from MWB-34(S)d at 660 mg/L slightly above the SDWS (500 mg/L).
- Vanadium was detected in the sample from two wells (MWB-12(S)c and MWB-13(S)c at a level above the GCTL of 49 µg/L. This detection is consistent with historical data. We note that the sample turbidity were 54.9 and 24.3 NTU's for the two samples which may have biased the result high.
- There have been some historic operational issues with Pump Station IIIC that may have resulted in the initial increases in several groundwater constituents at MWB-34(S)d. MWB-34(S)d is located below leachate pump station IIIC. As previously reported, on June 21, 2005, a lightning strike and resulting fire destroyed the pump, piping and wiring within the pump station. The equipment was quickly replaced but did result in some increased concentrations of chloride, total dissolved solids, and other indicators during the July 2005 monitoring event. Concentrations dropped in late 2005 and early 2006, suggesting that the issue had been corrected. In later 2006 and early 2007, the pump was removed to clean the build-up of solid material. During the early 2007 removal process, a small amount of liquids in the pump and piping were accidentally spilled in the proximity of MWB-34(S)d. The liquids were promptly contained and removed. However, the groundwater data indicate that MWB-34(S)d may have been impacted at that time. Procedures have been put into place to prevent a future spill from occurring. This includes the use of a small, lined catch basin when there is repair or work activity on the leachate pump stations. These actions appear to be effective as concentrations in general continue to decrease.
- Acetone, ethylbenzene, xylene, and toluene were detected in the sample from MWB-2(S)c, MWB-13(S)c, or MWB-32(S)c at concentrations slightly above the Method Detection Limit (MDL) but below the reporting limits and substantially below their respective PDWS's.



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### **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 FDEP Semi-Annual Surface Water Parameter Monitoring Report forms have been completed and are included in Appendix D. The laboratory reports for the surface water samples are included in Appendix E.

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 except acetone, which was detected slightly above the MDL but substantially below the SWCTL of 1700 ug/L. This compound is a common laboratory contaminant and its detection is attributed to field or laboratory contamination. 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:

- 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 background location SW-2 was 460 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. This detection at the background location is also consistent with historical measurements.
- Dissolved oxygen (DO) measured in the field at the surface water point SW-1 (3.2 mg/L.) was below the Class III standard minimum of 5.0 mg/L. These detections are consistent with historical data.
- Iron concentration from SW-1 was above the Class III standard which is consistent with historical data.

These constituents have historically been detected in both up and downgradient surface water samples and are not considered a result of site activities. All other surface water data are below groundwater quality standards and are consistent with the historical data obtained.

### **4.0 CONDENSATE AND LEACHATE MONITORING DATA**

In accordance with Specific Condition 14, gas condensate from the pump station was sampled for TCLP parameters with the results submitted to the Department no later than June 30 and December 31 of each year. No exceedances of regulatory standards (40 CFR Part 261) were noted in the condensate sample collected for analysis on July 29, 2009. The FDEP Semi-Annual Condensate Parameter Monitoring Report Forms are included in Appendix F. The laboratory report for the condensate sample is included in Appendix G.

In accordance with Specific Condition 39 of the permit, leachate is sampled annually prior to September 30 and analyzed. 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) and analyzed for the parameters listed in Specific Condition 39. Leachate samples were collected on July 29, 2009 and

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analyzed. The FDEP Semi-Annual Parameter Monitoring Report Forms for leachate samples are included in Appendix H. The laboratory report for the leachate sample is included in Appendix I. No exceedances of regulatory standards (40 CFR Part 261) have been noted in the leachate samples.

## **5.0 SUMMARY**

The data obtained during this semi-annual monitoring event at the Trail Ridge are generally consistent with the historical data. The parameters detected at levels above applicable PDWS and SDWS are summarized herein and 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 vanadium concentration in the groundwater sample from MWB-12(S)c and MWB-13(S)d was above the GCTL. However, this detection is likely influenced by elevated sample turbidity and is consistent with historical data.

At MWB-34(S)d, TDS was above the SWDS. This concentration is substantially lower than the historic high results. TDS concentrations from MWB-34(S)d continue to demonstrate a downward trend.

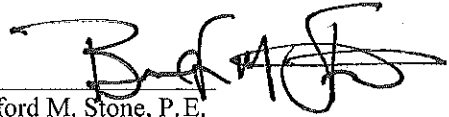
The pH and fecal coliform for SW-2 (background sample location) were above the respective Class III standards. Iron and pH from SW-1 were the only parameters above Class III standards. These constituents have historically been detected in both up and downgradient surface water samples and are not considered a result of site activities. The remainder of the data is below any groundwater or surface water quality standards and is consistent with historical data. The monitoring well network continues to adequately monitor the landfill.

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**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

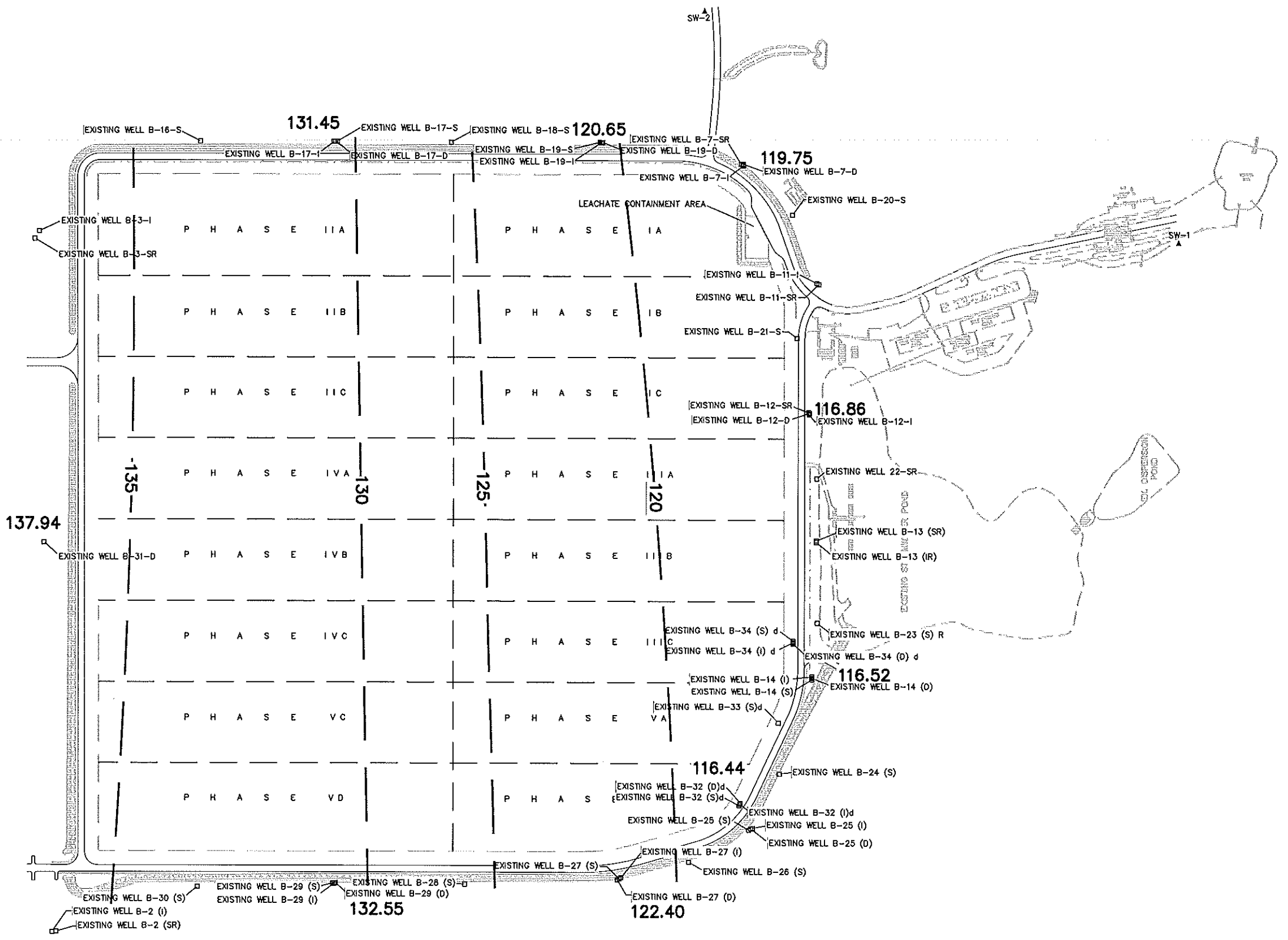
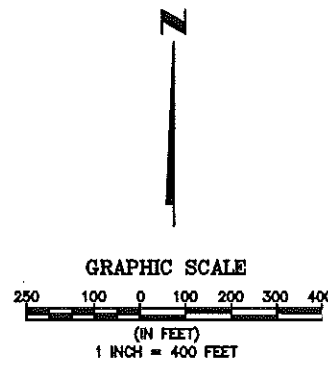
10-8-09

## **FIGURES**

- Figure 1** Groundwater Contour Map Shallow Wells - Trail Ridge Landfill
- Figure 2** Groundwater Contour Map Intermediate Wells - Trail Ridge Landfill
- Figure 3** Groundwater Contour Map Deep Wells - Trail Ridge Landfill







*Beckwith*

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**GROUNDWATER CONTOUR MAP  
 DEEP WELLS  
 TRAIL RIDGE LANDFILL**  
 MEASUREMENT DATE: JULY 23, 2009

DATE	OCT. 2009
FIGURE	FIG 3

10-8-09

## **APPENDIX A**

Laboratory Reports – Groundwater Sample Points



August 10, 2009

Service Request No: J0903644

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

**Laboratory Results for: Trail Ridge Landfill**

Dear Handi:

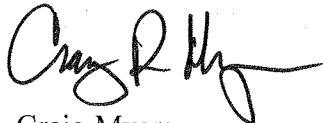
Enclosed are the results of the sample(s) submitted to our laboratory on July 24, 2009. For your reference, these analyses have been assigned our service request number **J0903644**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

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COLUMBIA ANALYTICAL SERVICES, INC.

Client: HDR Engineering  
Project: Trail Ridge Landfill  
Sample Matrix: Water

Service Request No.: J0903644  
Date Received: 7/24/09

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**

Eighteen water samples and two trip blanks were received for analysis at Columbia Analytical Services on 7/24/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at  $4\pm 2^{\circ}\text{C}$  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 Trichlorofluoromethane and Carbon Tetrachloride for sample MWB2S 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.

**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 and Dissolved Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

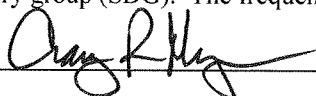
**General Chemistry Parameters**

The samples were analyzed for Inorganic Parameters using various EPA 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

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/10/09

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 \_\_\_\_\_

8/10/09

## 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: J0903644

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903644-001	MWB2S	7/23/09	09:50
J0903644-002	MWB2I	7/23/09	10:20
J0903644-003	MWB29S	7/23/09	11:00
J0903644-004	MWB29I	7/23/09	11:30
J0903644-005	MWB29D	7/23/09	12:08
J0903644-006	MWB27S	7/23/09	13:25
J0903644-007	MWB27I	7/23/09	14:25
J0903644-008	MWB27D	7/23/09	13:58
J0903644-009	MWB13S	7/23/09	15:20
J0903644-010	MWB13I	7/23/09	15:55
J0903644-011	MWB22S	7/23/09	16:38
J0903644-012	DUP01	7/23/09	12:08
J0903644-013	MWB12S	7/24/09	08:54
J0903644-014	MWB12D	7/24/09	09:27
J0903644-015	MWB12I	7/24/09	10:15
J0903644-016	MWB11S	7/24/09	10:50
J0903644-017	MWB11I(R)	7/24/09	11:16
J0903644-018	DUP02	7/24/09	00:00
J0903644-019	Trip Blank 1	7/24/09	00:00
J0903644-020	Trip Blank 2	7/24/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2S  
 Lab Code: J0903644-001  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
<b>Toluene</b>	<b>0.91</b>	<b>I</b>	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB2S  
**Lab Code:** J0903644-001  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
<b>m,p-Xylenes</b>	<b>0.50</b>	<b>I</b>	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	89	82-116	Acceptable
Toluene-d8	108	88-117	Acceptable

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB2I  
 Lab Code: J0903644-002  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB2I  
**Lab Code:** J0903644-002  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	86	75-120	Acceptable
Dibromofluoromethane	88	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: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29S  
 Lab Code: J0903644-003  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB29S  
**Lab Code:** J0903644-003  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	95	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	89	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: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29I  
 Lab Code: J0903644-004  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29I  
 Lab Code: J0903644-004  
 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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	88	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: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB29D  
 Lab Code: J0903644-005  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB29D  
**Lab Code:** J0903644-005  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	91	82-116	Acceptable
Toluene-d8	105	88-117	Acceptable

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27S  
**Lab Code:** J0903644-006  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27S  
**Lab Code:** J0903644-006  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	90	82-116	Acceptable
Toluene-d8	108	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27I  
**Lab Code:** J0903644-007  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27I  
**Lab Code:** J0903644-007  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	90	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:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27D  
**Lab Code:** J0903644-008  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB27D  
**Lab Code:** J0903644-008  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	90	82-116	Acceptable
Toluene-d8	109	88-117	Acceptable

**Comments:**

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13S  
 Lab Code: J0903644-009  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
<b>Acetone</b>	<b>11</b>	<b>I</b>	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB13S  
**Lab Code:** J0903644-009  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	86	75-120	Acceptable
Dibromofluoromethane	88	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: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB13I  
 Lab Code: J0903644-010  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB13I  
**Lab Code:** J0903644-010  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	92	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: J0903644  
 Date Collected: 07/23/2009  
 Date Received: 07/24/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB22S  
 Lab Code: J0903644-011

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
Chloromethane	ND	U	1.0	0.17	2.7	1	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB22S  
**Lab Code:** J0903644-011  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	90	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:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP01  
**Lab Code:** J0903644-012  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP01  
**Lab Code:** J0903644-012  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	90	82-116	Acceptable
Toluene-d8	104	88-117	Acceptable

**Comments:**

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12S  
 Lab Code: J0903644-013  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB12S  
**Lab Code:** J0903644-013  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	86	75-120	Acceptable
Dibromofluoromethane	89	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: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB12D  
 Lab Code: J0903644-014  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB12D  
**Lab Code:** J0903644-014  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	89	82-116	Acceptable
Toluene-d8	105	88-117	Acceptable

**Comments:**

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## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

## Appendix I Volatile Organic Compounds by GC/MS

**Sample Name:** MWB12I  
**Lab Code:** J0903644-015  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB12I  
**Lab Code:** J0903644-015  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	89	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: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11S  
 Lab Code: J0903644-016  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB11S  
**Lab Code:** J0903644-016  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	89	75-120	Acceptable
Dibromofluoromethane	91	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: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB11I(R)  
 Lab Code: J0903644-017  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB11I(R)  
**Lab Code:** J0903644-017  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	88	75-120	Acceptable
Dibromofluoromethane	89	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:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP02  
**Lab Code:** J0903644-018  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP02  
**Lab Code:** J0903644-018  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	90	82-116	Acceptable
Toluene-d8	108	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 1  
**Lab Code:** J0903644-019  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank 1  
 Lab Code: J0903644-019  
 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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	95	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	88	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:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 2  
**Lab Code:** J0903644-020  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903644  
 Date Collected: 07/24/2009  
 Date Received: 07/24/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank 2  
 Lab Code: J0903644-020  
 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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	89	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:** J0903644  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902477-4  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902477-4  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	89	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:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB2S **Units:** ug/L  
**Lab Code:** J0903644-001 **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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	113	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB2I  
**Lab Code:** J0903644-002  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB29S  
**Lab Code:** J0903644-003  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB291  
**Lab Code:** J0903644-004  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	112	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB29D **Units:** ug/L  
**Lab Code:** J0903644-005 **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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	113	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB27S **Units:** ug/L  
**Lab Code:** J0903644-006 **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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB271  
**Lab Code:** J0903644-007  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB27D  
**Lab Code:** J0903644-008  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB13S **Units:** ug/L  
**Lab Code:** J0903644-009 **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	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB131  
**Lab Code:** J0903644-010  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB22S  
**Lab Code:** J0903644-011  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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:** J0903644  
**Date Collected:** 07/23/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** DUP01 **Units:** ug/L  
**Lab Code:** J0903644-012 **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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB12S  
**Lab Code:** J0903644-013  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	112	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB12D **Units:** ug/L  
**Lab Code:** J0903644-014 **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	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	113	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB12I  
**Lab Code:** J0903644-015  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB11S  
**Lab Code:** J0903644-016  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

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  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** MWB11I(R) **Units:** ug/L  
**Lab Code:** J0903644-017 **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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** 07/24/2009  
**Date Received:** 07/24/2009

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

**Sample Name:** DUP02 **Units:** ug/L  
**Lab Code:** J0903644-018 **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	08/03/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	116	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903644  
**Date Collected:** NA  
**Date Received:** NA

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

**Sample Name:** Method Blank  
**Lab Code:** JWG0902495-3  
**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	0.020	0.0070	0.02	1	08/03/09	08/04/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/03/09	08/04/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	123	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB2S  
**Lab Code:** J0903644-001

**Service Request:** J0903644  
**Date Collected:** 7/23/09 09:50  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 05:40
Arsenic, Total	6020	0.42 I	µg/L	0.50	0.20	1	7/29/09	7/31/09 05:40
Barium, Total	6020	14.9	µg/L	2.0	0.5	1	7/29/09	7/31/09 05:40
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:40
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 05:40
Chromium, Total	6020	2.2	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:40
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:40
Copper, Total	6020	8.1	µg/L	2.0	0.3	1	7/29/09	8/4/09 00:18
Iron, Total	6010B	334	µg/L	50	4	1	7/28/09	7/29/09 21:25
Lead, Total	6020	0.8 I	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:40
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:55
Nickel, Total	6020	2.1	µg/L	2.0	0.3	1	7/29/09	7/31/09 05:40
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:40
Silver, Total	6020	0.20 I	µg/L	0.50	0.08	1	7/29/09	8/4/09 00:18
Sodium, Total	6010B	3.97	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:25
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:40
Vanadium, Total	6020	2.8 I	µg/L	5.0	1.2	1	7/29/09	7/31/09 05:40
Zinc, Total	6020	15	µg/L	10	4	1	7/29/09	8/4/09 00:18

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB21  
**Lab Code:** J0903644-002

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1020  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 05:45
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 05:45
Barium, Total	6020	<b>21.6</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 05:45
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:45
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 05:45
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:45
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:45
Copper, Total	6020	<b>0.6</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 00:22
Iron, Total	6010B	<b>388</b>	µg/L	50	4	1	7/28/09	7/29/09 21:38
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:45
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:56
Nickel, Total	6020	<b>0.6</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 05:45
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:45
Silver, Total	6020	<b>0.10</b> I	µg/L	0.50	0.08	1	7/29/09	8/4/09 00:22
Sodium, Total	6010B	<b>4.74</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:38
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:45
Vanadium, Total	6020	<b>1.3</b> I	µg/L	5.0	1.2	1	7/29/09	7/31/09 05:45
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 00:22

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB29S  
**Lab Code:** J0903644-003

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1100  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:24
Arsenic, Total	6020	0.32 I	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:24
Barium, Total	6020	12.9	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:24
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:24
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:24
Chromium, Total	6020	0.8 I	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:24
Cobalt, Total	6020	0.3 I	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:24
Copper, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/29/09	8/4/09 00:57
Iron, Total	6010B	808	µg/L	50	4	1	7/28/09	7/29/09 21:41
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:24
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:44
Nickel, Total	6020	0.7 I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:24
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:24
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:24
Sodium, Total	6010B	7.74	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:41
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:24
Vanadium, Total	6020	2.0 I	µg/L	5.0	1.2	1	7/29/09	8/4/09 00:57
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 00:57

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB29I  
**Lab Code:** J0903644-004

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1130  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:29
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:29
Barium, Total	6020	<b>44.6</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:29
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:29
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:29
Chromium, Total	6020	<b>1.2</b> I	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:29
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:29
Copper, Total	6020	<b>0.3</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:01
Iron, Total	6010B	<b>458</b>	µg/L	50	4	1	7/28/09	7/29/09 21:43
Lead, Total	6020	<b>1.2</b>	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:29
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:57
Nickel, Total	6020	<b>0.7</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:29
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:29
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:29
Sodium, Total	6010B	<b>3.60</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:43
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:29
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:01
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 01:01

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB29D  
**Lab Code:** J0903644-005

**Service Request:** J0903644  
**Date Collected:** 7/23/09 12:08  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:34
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:34
Barium, Total	6020	<b>52.9</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:34
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:34
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:34
Chromium, Total	6020	<b>1.1 I</b>	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:34
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:34
Copper, Total	6020	<b>0.8 I</b>	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:06
Iron, Total	6010B	<b>730</b>	µg/L	50	4	1	7/28/09	7/30/09 13:03
Lead, Total	6020	<b>0.4 I</b>	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:34
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:59
Nickel, Total	6020	<b>4.1</b>	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:34
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:34
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:34
Sodium, Total	6010B	<b>3.86</b>	mg/L	0.50	0.02	1	7/29/09	7/30/09 13:02
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:34
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:06
Zinc, Total	6020	<b>4 I</b>	µg/L	10	4	1	7/29/09	8/4/09 01:06

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB27S  
**Lab Code:** J0903644-006

**Service Request:** J0903644  
**Date Collected:** 7/23/09 13:25  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:39
Arsenic, Total	6020	0.92	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:39
Barium, Total	6020	13.6	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:39
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:39
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:39
Chromium, Total	6020	2.0 I	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:39
Cobalt, Total	6020	0.2 I	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:39
Copper, Total	6020	2.0 I	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:10
Iron, Total	6010B	224	µg/L	50	4	1	7/28/09	7/29/09 21:46
Lead, Total	6020	0.4 I	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:39
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:00
Nickel, Total	6020	1.6 I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:39
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:39
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:39
Sodium, Total	6010B	11.5	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:46
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:39
Vanadium, Total	6020	7.0	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:10
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 01:10

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB27I  
**Lab Code:** J0903644-007

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1425  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:44
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:44
Barium, Total	6020	<b>48.5</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:44
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:44
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:44
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:44
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:44
Copper, Total	6020	<b>0.4</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:14
Iron, Total	6010B	<b>450</b>	µg/L	50	4	1	7/28/09	7/29/09 21:49
Lead, Total	6020	<b>0.2</b> I	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:44
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:02
Nickel, Total	6020	<b>0.8</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:44
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:44
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:44
Sodium, Total	6010B	<b>3.56</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:49
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:44
Vanadium, Total	6020	<b>1.7</b> I	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:14
Zinc, Total	6020	<b>5</b> I	µg/L	10	4	1	7/29/09	8/4/09 01:14

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB27D  
**Lab Code:** J0903644-008

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1358  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:49
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:49
Barium, Total	6020	<b>50.8</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:49
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:49
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:49
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:49
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:49
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:19
Iron, Total	6010B	<b>688</b>	µg/L	50	4	1	7/28/09	7/29/09 21:56
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:49
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:03
Nickel, Total	6020	<b>1.0</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:49
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:49
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:49
Sodium, Total	6010B	<b>3.82</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:56
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:49
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:19
Zinc, Total	6020	<b>34</b>	µg/L	10	4	1	7/29/09	8/4/09 01:19

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB13S  
**Lab Code:** J0903644-009

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1520  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:54
Arsenic, Total	6020	0.59	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:54
Barium, Total	6020	14.0	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:54
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:54
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:54
Chromium, Total	6020	9.8	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:54
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:54
Copper, Total	6020	4.1	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:23
Iron, Total	6010B	1420	µg/L	50	4	1	7/28/09	7/29/09 21:59
Lead, Total	6020	1.3	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:54
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:05
Nickel, Total	6020	1.3 I	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:54
Selenium, Total	6020	8.4	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:54
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:54
Sodium, Total	6010B	20.6	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:59
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:54
Vanadium, Total	6020	61.1	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:23
Zinc, Total	6020	6 I	µg/L	10	4	1	7/29/09	8/4/09 01:23

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB131  
**Lab Code:** J0903644-010

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1555  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 06:59
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 06:59
Barium, Total	6020	<b>29.9</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 06:59
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:59
Cadmium, Total	6020	<b>0.17 I</b>	µg/L	0.50	0.12	1	7/29/09	7/31/09 06:59
Chromium, Total	6020	<b>1.1 I</b>	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:59
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:59
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:27
Iron, Total	6010B	<b>311</b>	µg/L	50	4	1	7/28/09	7/29/09 22:02
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:59
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:06
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	7/31/09 06:59
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 06:59
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 06:59
Sodium, Total	6010B	<b>3.45</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:02
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 06:59
Vanadium, Total	6020	<b>1.7 I</b>	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:27
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 01:27

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB22S  
**Lab Code:** J0903644-011

**Service Request:** J0903644  
**Date Collected:** 7/23/09 1638  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:04
Arsenic, Total	6020	0.25 I	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:04
Barium, Total	6020	5.9	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:04
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:04
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:04
Chromium, Total	6020	2.0	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:04
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:04
Copper, Total	6020	1.5 I	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:32
Iron, Total	6010B	204	µg/L	50	4	1	7/28/09	7/29/09 22:04
Lead, Total	6020	0.5 I	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:04
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:08
Nickel, Total	6020	1.1 I	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:04
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:04
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:04
Sodium, Total	6010B	5.81	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:04
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:04
Vanadium, Total	6020	1.9 I	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:32
Zinc, Total	6020	8 I	µg/L	10	4	1	7/29/09	8/4/09 01:32

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** DUP01  
**Lab Code:** J0903644-012

**Service Request:** J0903644  
**Date Collected:** 7/23/09 12:08  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:23
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:23
Barium, Total	6020	<b>51.5</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:23
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:23
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:23
Chromium, Total	6020	<b>1.1 I</b>	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:23
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:23
Copper, Total	6020	<b>0.3 I</b>	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:49
Iron, Total	6010B	<b>800</b>	µg/L	50	4	1	7/28/09	7/29/09 22:12
Lead, Total	6020	<b>0.3 I</b>	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:23
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:12
Nickel, Total	6020	<b>0.4 I</b>	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:23
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:23
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:23
Sodium, Total	6010B	<b>4.03</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:12
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:23
Vanadium, Total	6020	<b>1.3 I</b>	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:49
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 01:49

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB12S  
**Lab Code:** J0903644-013

**Service Request:** J0903644  
**Date Collected:** 7/24/09 0854  
**Date Received:** 7/24/09

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	0.5 I	µg/L	2.0	0.4	1	7/27/09	7/30/09 17:01
Antimony, Total	6020	0.7 I	µg/L	2.0	0.4	1	7/29/09	7/31/09 07:28
Arsenic, Dissolved	6020	0.28 I	µg/L	0.50	0.20	1	7/27/09	8/5/09 20:18
Arsenic, Total	6020	0.31 I	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:28
Barium, Dissolved	6020	3.7	µg/L	2.0	0.5	1	7/27/09	7/30/09 17:01
Barium, Total	6020	10.8	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:28
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:28
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:28
Chromium, Dissolved	6020	2.1	µg/L	2.0	0.8	1	7/27/09	7/30/09 17:01
Chromium, Total	6020	4.2	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:28
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:28
Copper, Dissolved	6020	1 I	µg/L	2.0	0.3	1	7/27/09	7/30/09 17:01
Copper, Total	6020	3.6	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:53
Iron, Dissolved	6010B	12 I	µg/L	50	4	1	7/27/09	7/28/09 18:34
Iron, Total	6010B	152	µg/L	50	4	1	7/28/09	7/29/09 22:15
Lead, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/27/09	7/30/09 17:01
Lead, Total	6020	1.8	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:28
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:14
Nickel, Dissolved	6020	0.9 I	µg/L	2.0	0.3	1	7/27/09	7/30/09 17:01
Nickel, Total	6020	1 I	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:28
Selenium, Dissolved	6020	8.2	µg/L	2.0	0.8	1	7/27/09	7/30/09 17:01
Selenium, Total	6020	11.0	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:28
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:28
Sodium, Dissolved	6010B	5.75	mg/L	0.50	0.02	1	7/27/09	7/28/09 18:34
Sodium, Total	6010B	6.22	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:15
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:28
Vanadium, Dissolved	6020	103	µg/L	5.0	1.2	1	7/27/09	7/30/09 17:01
Vanadium, Total	6020	112	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:53
Zinc, Dissolved	6020	ND U	µg/L	10	4	1	7/27/09	7/30/09 17:01
Zinc, Total	6020	4 I	µg/L	10	4	1	7/29/09	8/4/09 01:53

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB12D  
**Lab Code:** J0903644-014

**Service Request:** J0903644  
**Date Collected:** 7/24/09 0927  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:33
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:33
Barium, Total	6020	<b>117</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:33
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:33
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:33
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:33
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:33
Copper, Total	6020	<b>0.3</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 01:57
Iron, Total	6010B	<b>813</b>	µg/L	50	4	1	7/28/09	7/29/09 22:18
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:33
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:15
Nickel, Total	6020	<b>1.4</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:33
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:33
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:33
Sodium, Total	6010B	<b>6.39</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:17
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:33
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 01:57
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 01:57

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB12I  
**Lab Code:** J0903644-015

**Service Request:** J0903644  
**Date Collected:** 7/24/09 1015  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:38
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:38
Barium, Total	6020	<b>49.0</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:38
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:38
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:38
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:38
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:38
Copper, Total	6020	<b>0.4</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 02:02
Iron, Total	6010B	<b>303</b>	µg/L	50	4	1	7/28/09	7/29/09 22:20
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:38
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:17
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:38
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:38
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:38
Sodium, Total	6010B	<b>3.36</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:20
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:38
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 02:02
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 02:02

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB11S  
**Lab Code:** J0903644-016

**Service Request:** J0903644  
**Date Collected:** 7/24/09 1050  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:43
Arsenic, Total	6020	<b>0.43</b> I	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:43
Barium, Total	6020	<b>73.5</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:43
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:43
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:43
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:43
Cobalt, Total	6020	<b>0.9</b> I	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:43
Copper, Total	6020	<b>0.3</b> I	µg/L	2.0	0.3	1	7/29/09	8/4/09 02:06
Iron, Total	6010B	<b>1930</b>	µg/L	50	4	1	7/28/09	7/29/09 22:28
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:43
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:18
Nickel, Total	6020	<b>1</b> I	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:43
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:43
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:43
Sodium, Total	6010B	<b>15.2</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:28
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:43
Vanadium, Total	6020	<b>8.0</b>	µg/L	5.0	1.2	1	7/29/09	8/4/09 02:06
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 02:06

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** MWB111(R)  
**Lab Code:** J0903644-017

**Service Request:** J0903644  
**Date Collected:** 7/24/09 1116  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:48
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:48
Barium, Total	6020	<b>45.3</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:48
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:48
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:48
Chromium, Total	6020	<b>4.9</b>	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:48
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:48
Copper, Total	6020	<b>0.4 I</b>	µg/L	2.0	0.3	1	7/29/09	8/4/09 02:10
Iron, Total	6010B	<b>635</b>	µg/L	50	4	1	7/28/09	7/29/09 22:31
Lead, Total	6020	<b>1.4</b>	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:48
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:19
Nickel, Total	6020	<b>0.4 I</b>	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:48
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:48
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:48
Sodium, Total	6010B	<b>3.45</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:31
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:48
Vanadium, Total	6020	<b>10</b>	µg/L	5.0	1.2	1	7/29/09	8/4/09 02:10
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 02:10

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** DUP02  
**Lab Code:** J0903644-018

**Service Request:** J0903644  
**Date Collected:** 7/24/09 0000  
**Date Received:** 7/24/09

**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	0.4	1	7/29/09	7/31/09 07:53
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 07:53
Barium, Total	6020	<b>116</b>	µg/L	2.0	0.5	1	7/29/09	7/31/09 07:53
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:53
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 07:53
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:53
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:53
Copper, Total	6020	<b>0.4 I</b>	µg/L	2.0	0.3	1	7/29/09	8/4/09 02:15
Iron, Total	6010B	<b>778</b>	µg/L	50	4	1	7/28/09	7/29/09 22:33
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:53
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 17:21
Nickel, Total	6020	<b>1.4 I</b>	µg/L	2.0	0.3	1	7/29/09	7/31/09 07:53
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 07:53
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/29/09	7/31/09 07:53
Sodium, Total	6010B	<b>6.17</b>	mg/L	0.50	0.02	1	7/28/09	7/29/09 22:33
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 07:53
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	8/4/09 02:15
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 02:15

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge Landfill  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J0903644-MB1

**Service Request:** J0903644  
**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, Dissolved	6020	ND U	µg/L	2.0	0.4	1	7/27/09	7/30/09 14:36
Antimony, Total	6020	ND U	µg/L	2.0	0.4	1	7/29/09	7/31/09 05:31
Arsenic, Dissolved	6020	<b>0.22</b> I	µg/L	0.50	0.20	1	7/27/09	7/30/09 14:36
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/29/09	7/31/09 05:31
Barium, Dissolved	6020	ND U	µg/L	2.0	0.5	1	7/27/09	7/30/09 14:36
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	7/29/09	7/31/09 05:31
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:31
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/29/09	7/31/09 05:31
Chromium, Dissolved	6020	ND U	µg/L	2.0	0.8	1	7/27/09	7/30/09 14:36
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:31
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:31
Copper, Dissolved	6020	ND U	µg/L	2.0	0.3	1	7/27/09	7/30/09 14:36
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	8/4/09 00:10
Iron, Dissolved	6010B	ND U	µg/L	50	4	1	7/27/09	7/28/09 16:36
Iron, Total	6010B	<b>10</b> I	µg/L	50	4	1	7/28/09	7/29/09 21:14
Lead, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/27/09	7/30/09 14:36
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:31
Manganese, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/27/09	7/30/09 14:36
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	7/30/09	7/30/09 16:40
Molybdenum, Dissolved	6020	ND U	µg/L	2.0	0.4	1	7/27/09	7/30/09 14:36
Nickel, Dissolved	6020	ND U	µg/L	2.0	0.3	1	7/27/09	7/30/09 14:36
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/29/09	7/31/09 05:31
Selenium, Dissolved	6020	ND U	µg/L	2.0	0.8	1	7/27/09	7/30/09 14:36
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/29/09	7/31/09 05:31
Silver, Total	6020	<b>0.45</b> I	µg/L	0.50	0.08	1	7/29/09	8/4/09 00:10
Sodium, Dissolved	6010B	<b>0.06</b> I	mg/L	0.50	0.02	1	7/27/09	7/28/09 16:36
Sodium, Total	6010B	<b>0.1</b> I	mg/L	0.50	0.02	1	7/28/09	7/29/09 21:14
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/29/09	7/31/09 05:31
Vanadium, Dissolved	6020	ND U	µg/L	5.0	1.2	1	7/27/09	7/30/09 14:36
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/29/09	7/31/09 05:31
Zinc, Dissolved	6020	ND U	µg/L	10	4	1	7/27/09	7/30/09 14:36
Zinc, Total	6020	ND U	µg/L	10	4	1	7/29/09	8/4/09 00:10

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB2S  
**Lab Code :** J0903644-001  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.049	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	7.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 09:50	71	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 16:13	0.16	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 09:50	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 09:50	3.81	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/29/09 17:30	41	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 09:50	25.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 09:50	14.1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB21  
**Lab Code :** J0903644-002  
**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	0.025	1	08/04/09 17:14	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	7.5	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 10:20	46	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 16:58	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 10:20	0.7	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 10:20	4.27	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/29/09 17:30	29	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 10:20	22.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 10:20	0.5	



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB29S  
**Lab Code :** J0903644-003  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.25	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	12	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 11:00	90	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 17:13	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 11:00	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 11:00	4.15	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	50	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 11:00	26.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 11:00	0.7	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB29I  
**Lab Code :** J0903644-004  
**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	0.025	1	08/04/09 17:14	0.11	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	5.9	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 11:30	45	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 17:28	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 11:30	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 11:30	4.70	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	27	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 11:30	23.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 11:30	24.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB29D  
**Lab Code :** J0903644-005  
**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	0.025	1	08/04/09 17:14	0.067	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	6.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 12:08	77	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 17:43	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 12:08	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 12:08	5.14	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	57	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 12:08	23.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 12:08	0.8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB27S  
**Lab Code :** J0903644-006  
**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	0.025	1	08/04/09 17:14	0.31	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	17	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 13:25	144	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 17:58	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 13:25	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 13:25	4.66	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	97	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 13:25	24.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 13:25	16.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB27I  
**Lab Code :** J0903644-007  
**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	0.025	1	08/04/09 17:14	0.076	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	5.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 14:25	60	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 18:13	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 14:25	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 14:25	5.08	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	44	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 14:25	22.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 14:25	4.9	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB27D  
**Lab Code :** J0903644-008  
**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	0.025	1	08/04/09 17:14	0.078	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	5.8	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 13:58	100	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 18:27	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 13:58	0.6	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 13:58	5.37	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	63	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 13:58	24.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 13:58	0.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB13S  
**Lab Code :** J0903644-009  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.082	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	35	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 15:20	321	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 19:27	0.201	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 15:20	1.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 15:20	5.02	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	180	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 15:20	31.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 15:20	24.8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB13I  
**Lab Code :** J0903644-010  
**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	0.025	1	08/04/09 17:14	0.040	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	5.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 15:55	41	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 19:42	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 15:55	0.4	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 15:55	4.72	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	35	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 15:55	26.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 15:55	0.9	



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB22S  
**Lab Code :** J0903644-011  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.14	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	8.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 16:38	195	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 19:57	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 16:38	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 16:38	5.30	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	130	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 16:38	25.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 16:38	7.4	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** DUP01  
**Lab Code :** J0903644-012  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.094	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	6.5	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/23/09 12:08	77	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 20:42	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/23/09 12:08	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/23/09 12:08	5.14	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	59	
Temperature (Field)	DEG C	170.1	-	-	1	07/23/09 12:08	23.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/23/09 12:08	0.8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB12S  
**Lab Code :** J0903644-013  
**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	0.025	1	08/04/09 17:14	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	8.8	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 08:54	173	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 20:57	0.35	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 08:54	1.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 08:54	5.29	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	150	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 08:54	24.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 08:54	54.9	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB12D  
**Lab Code :** J0903644-014  
**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	0.025	1	08/04/09 17:14	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	4.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 09:27	463	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 21:12	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 09:27	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 09:27	6.70	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	210	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 09:27	24.6	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 09:27	1.7	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB121  
**Lab Code :** J0903644-015  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	5.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 10:15	45	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 21:27	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 10:15	1.3	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 10:15	4.85	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	35	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 10:15	24.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 10:15	0.7	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB11S  
**Lab Code :** J0903644-016  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	27	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 10:50	237	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 21:42	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 10:50	0.3	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 10:50	3.77	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	130	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 10:50	24.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 10:50	0.1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** MWB111(R)  
**Lab Code :** J0903644-017  
**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	0.025	1	08/04/09 17:14	0.11	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	6.8	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 11:16	43	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 22:42	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 11:16	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 11:16	4.67	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	35	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 11:16	24.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 11:16	19.4	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09

Inorganic Parameters

**Sample Name :** DUP02  
**Lab Code :** J0903644-018  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	4.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/24/09 09:27	463	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 22:57	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/24/09 09:27	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/24/09 09:27	6.70	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	220	
Temperature (Field)	DEG C	170.1	-	-	1	07/24/09 09:27	24.6	
Turbidity (Field)	NTU	180.1	-	-	1	07/24/09 09:27	1.7	



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903644  
**Date Collected :** NA  
**Date Received :** NA

Inorganic Parameters

**Sample Name :** Method Blank  
**Lab Code :** J0903644-MB  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/04/09 17:14	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/24/09 13:14	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/24/09 13:14	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/29/09 17:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 18:00	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	07/30/09 16:30	U	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903644

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
MWB2S	J0903644-001	93	87	89	108
MWB2I	J0903644-002	91	86	88	104
MWB29S	J0903644-003	95	85	89	103
MWB29I	J0903644-004	91	85	88	106
MWB29D	J0903644-005	94	87	91	105
MWB27S	J0903644-006	93	88	90	108
MWB27I	J0903644-007	94	87	90	107
MWB27D	J0903644-008	93	87	90	109
MWB13S	J0903644-009	93	86	88	106
MWB13I	J0903644-010	94	88	92	103
MWB22S	J0903644-011	94	87	90	105
DUP01	J0903644-012	93	88	90	104
MWB12S	J0903644-013	94	86	89	105
MWB12D	J0903644-014	94	87	89	105
MWB12I	J0903644-015	93	88	89	104
MWB11S	J0903644-016	94	89	91	104
MWB11I(R)	J0903644-017	91	88	89	104
DUP02	J0903644-018	92	85	90	108
Trip Blank 1	J0903644-019	95	87	88	107
Trip Blank 2	J0903644-020	93	87	89	107
Method Blank	JWG0902477-4	93	87	89	107
MWB2SMS	JWG0902477-1	93	85	89	103
MWB2SDMS	JWG0902477-2	93	85	90	101
Lab Control Sample	JWG0902477-3	90	86	90	100

Surrogate Recovery Control Limits (%)

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

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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: J0903644  
 Date Extracted: 07/31/2009  
 Date Analyzed: 07/31/2009

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

Sample Name: MWB2S  
 Lab Code: J0903644-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902477

Analyte Name	Sample Result	MWB2SMS JWG0902477-1 Matrix Spike			MWB2SDMS JWG0902477-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	14.7	20.0	74	15.3	20.0	77	73-139	4	30
Vinyl Chloride	ND	16.1	20.0	81	16.6	20.0	83	78-141	3	30
Bromomethane	ND	18.5	20.0	92	18.0	20.0	90	78-129	3	30
Chloroethane	ND	17.5	20.0	87	17.7	20.0	89	76-129	1	30
Trichlorofluoromethane	ND	14.6	20.0	73 *	16.0	20.0	80 *	81-133	9	30
1,1-Dichloroethene	ND	16.6	20.0	83	17.2	20.0	86	79-133	3	30
Acetone	ND	131	100	131	131	100	131	56-139	0	30
Iodomethane (Methyl Iodide)	ND	89.0	100	89	90.6	100	91	74-134	2	30
Carbon Disulfide	ND	81.3	100	81	82.5	100	82	71-146	1	30
Methylene Chloride	ND	19.6	20.0	98	19.9	20.0	100	75-123	2	30
trans-1,2-Dichloroethene	ND	18.6	20.0	93	19.0	20.0	95	76-125	2	30
Acrylonitrile	ND	125	100	125	122	100	122	68-131	2	30
1,1-Dichloroethane	ND	18.6	20.0	93	19.9	20.0	100	78-125	7	30
Vinyl Acetate	ND	78.6	100	79	79.4	100	79	43-163	1	30
cis-1,2-Dichloroethene	ND	19.9	20.0	100	20.3	20.0	102	75-127	2	30
2-Butanone (MEK)	ND	108	100	108	106	100	106	63-134	2	30
Bromochloromethane	ND	20.9	20.0	104	21.1	20.0	106	80-124	1	30
Chloroform	ND	19.9	20.0	99	20.6	20.0	103	81-124	4	30
1,1,1-Trichloroethane (TCA)	ND	16.0	20.0	80	16.6	20.0	83	76-130	4	30
Carbon Tetrachloride	ND	13.5	20.0	67 *	14.7	20.0	73 *	76-131	8	30
Benzene	ND	19.6	20.0	98	19.8	20.0	99	78-123	1	30
1,2-Dichloroethane (EDC)	ND	21.7	20.0	109	22.7	20.0	113	74-126	4	30
Trichloroethene (TCE)	ND	18.5	20.0	93	18.8	20.0	94	77-128	2	30
1,2-Dichloropropane	ND	20.0	20.0	100	20.3	20.0	102	77-122	1	30
Dibromomethane	ND	21.5	20.0	108	21.4	20.0	107	78-124	0	30
Bromodichloromethane	ND	19.2	20.0	96	19.5	20.0	97	79-125	1	30
cis-1,3-Dichloropropene	ND	18.8	20.0	94	19.0	20.0	95	77-117	1	30
4-Methyl-2-pentanone (MIBK)	ND	130	100	130	123	100	123	65-138	5	30
Toluene	0.91	20.9	20.0	100	20.7	20.0	99	86-119	1	30
trans-1,3-Dichloropropene	ND	18.1	20.0	90	18.7	20.0	94	75-120	4	30
1,1,2-Trichloroethane	ND	22.8	20.0	114	22.6	20.0	113	77-124	1	30
Tetrachloroethene (PCE)	ND	17.9	20.0	89	18.3	20.0	91	79-123	2	30
2-Hexanone	ND	131	100	131	124	100	124	63-142	6	30
Dibromochloromethane	ND	19.5	20.0	97	19.3	20.0	97	78-124	1	30

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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: J0903644  
 Date Extracted: 07/31/2009  
 Date Analyzed: 07/31/2009

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

Sample Name: MWB2S  
 Lab Code: J0903644-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902477

Analyte Name	Sample Result	MWB2SMS JWG0902477-1 Matrix Spike			MWB2SDMS JWG0902477-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	22.9	20.0	115	22.2	20.0	111	81-119	3	30
Chlorobenzene	ND	20.4	20.0	102	20.1	20.0	100	81-120	2	30
1,1,1,2-Tetrachloroethane	ND	18.5	20.0	92	18.2	20.0	91	82-118	2	30
Ethylbenzene	ND	20.0	20.0	100	19.7	20.0	99	87-122	1	30
m,p-Xylenes	0.50	39.2	40.0	97	38.2	40.0	94	82-120	2	30
o-Xylene	ND	20.1	20.0	101	20.0	20.0	100	85-119	1	30
Styrene	ND	20.1	20.0	100	19.7	20.0	99	84-126	2	30
Bromoform	ND	16.6	20.0	83	16.6	20.0	83	70-129	0	30
1,1,2,2-Tetrachloroethane	ND	23.4	20.0	117	22.6	20.0	113	72-127	3	30
1,2,3-Trichloropropane	ND	23.5	20.0	117	22.8	20.0	114	76-123	3	30
1,4-Dichlorobenzene	ND	19.3	20.0	96	19.5	20.0	98	75-115	1	30
trans-1,4-Dichloro-2-butene	ND	18.8	20.0	94	19.2	20.0	96	22-135	2	30
1,2-Dichlorobenzene	ND	19.9	20.0	100	20.1	20.0	101	77-116	1	30
1,2-Dibromo-3-chloropropane (DBCP)	ND	20.3	20.0	101	19.3	20.0	96	54-120	5	30

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

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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: J0903644  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/30/2009

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: JWG0902477

Lab Control Sample  
 JWG0902477-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	21.7	20.0	108	67-135
Vinyl Chloride	22.6	20.0	113	78-132
Bromomethane	21.0	20.0	105	79-130
Chloroethane	20.5	20.0	102	74-126
Trichlorofluoromethane	21.1	20.0	106	74-134
1,1-Dichloroethene	21.7	20.0	108	78-130
Acetone	116	100	116	67-133
Iodomethane (Methyl Iodide)	105	100	105	68-134
Carbon Disulfide	109	100	109	76-138
Methylene Chloride	20.7	20.0	104	72-124
trans-1,2-Dichloroethene	22.2	20.0	111	77-124
Acrylonitrile	117	100	117	77-127
1,1-Dichloroethane	21.5	20.0	108	80-128
Vinyl Acetate	111	100	111	61-148
cis-1,2-Dichloroethene	20.8	20.0	104	80-126
2-Butanone (MEK)	111	100	111	73-127
Bromochloromethane	21.8	20.0	109	79-129
Chloroform	21.7	20.0	108	83-124
1,1,1-Trichloroethane (TCA)	20.6	20.0	103	79-124
Carbon Tetrachloride	19.6	20.0	98	81-125
Benzene	21.2	20.0	106	79-119
1,2-Dichloroethane (EDC)	20.9	20.0	105	80-124
Trichloroethene (TCE)	20.9	20.0	105	76-124
1,2-Dichloropropane	21.3	20.0	106	79-123
Dibromomethane	21.9	20.0	110	83-123
Bromodichloromethane	20.5	20.0	103	81-123
cis-1,3-Dichloropropene	20.8	20.0	104	86-123
4-Methyl-2-pentanone (MIBK)	116	100	116	72-136
Toluene	21.2	20.0	106	86-117
trans-1,3-Dichloropropene	20.5	20.0	102	83-124
1,1,2-Trichloroethane	21.8	20.0	109	86-114
Tetrachloroethene (PCE)	20.2	20.0	101	80-121
2-Hexanone	117	100	117	71-138
Dibromochloromethane	20.2	20.0	101	82-121
1,2-Dibromoethane (EDB)	21.7	20.0	108	88-117
Chlorobenzene	20.5	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903644  
**Date Extracted:** 07/30/2009  
**Date Analyzed:** 07/30/2009

**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:** JWG0902477

Lab Control Sample  
 JWG0902477-3  
**Lab Control Spike**

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.0	100	85-117
Ethylbenzene	20.9	20.0	104	90-118
m,p-Xylenes	40.0	40.0	100	86-121
o-Xylene	20.1	20.0	101	89-119
Styrene	20.5	20.0	102	89-122
Bromoform	17.5	20.0	88	68-129
1,1,2,2-Tetrachloroethane	21.3	20.0	107	83-120
1,2,3-Trichloropropane	21.8	20.0	109	83-123
1,4-Dichlorobenzene	19.5	20.0	98	83-113
trans-1,4-Dichloro-2-butene	21.5	20.0	108	53-143
1,2-Dichlorobenzene	20.4	20.0	102	84-115
1,2-Dibromo-3-chloropropane (DBCP)	19.3	20.0	96	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: J0903644

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MWB2S	J0903644-001	113
MWB2I	J0903644-002	114
MWB29S	J0903644-003	111
MWB29I	J0903644-004	112
MWB29D	J0903644-005	113
MWB27S	J0903644-006	109
MWB27I	J0903644-007	109
MWB27D	J0903644-008	109
MWB13S	J0903644-009	108
MWB13I	J0903644-010	109
MWB22S	J0903644-011	110
DUP01	J0903644-012	107
MWB12S	J0903644-013	112
MWB12D	J0903644-014	113
MWB12I	J0903644-015	108
MWB11S	J0903644-016	107
MWB11I(R)	J0903644-017	118
DUP02	J0903644-018	116
Method Blank	JWG0902495-3	123
Lab Control Sample	JWG0902495-1	116
Duplicate Lab Control Sample	JWG0902495-2	112

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:** J0903644  
**Date Extracted:** 08/03/2009  
**Date Analyzed:** 08/04/2009

**Lab Control Spike/Duplicate 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:** JWG0902495

Analyte Name	Lab Control Sample JWG0902495-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902495-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.314	0.250	126	0.309	0.250	124	70-130	2	20
1,2-Dibromo-3-chloropropane (DBCP)	0.303	0.250	121	0.293	0.250	117	70-130	3	20

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: J0903644  
Date Collected: 7/23/09  
Date Received: 7/24/09  
Date Analyzed: 7/29/09

Matrix Spike Summary  
Inorganic Parameters

Sample Name: MWB2S  
Lab Code: J0903644-001

Units: µg/L  
Basis: NA

Analytical Method: 6010B  
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903644-MS1			Duplicate Matrix Spike J0903644-DMS1			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Iron, Total	334	2390	2000	103	2350	2000	101	75 - 125	2	20

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903644  
**Date Collected:** 7/23/09  
**Date Received:** 7/24/09  
**Date Analyzed:** 7/29/09

**Matrix Spike Summary  
 Inorganic Parameters**

**Sample Name:** MWB2S  
**Lab Code:** J0903644-001

**Units:** mg/L  
**Basis:** NA

**Analytical Method:** 6010B  
**Prep Method:** EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903644-MS1			Duplicate Matrix Spike J0903644-DMS1			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Sodium, Total	3.97	14.4	10.0	105	14.2	10.0	102	75 - 125	2	20

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903644  
 Date Collected: 7/23/09  
 Date Received: 7/24/09  
 Date Analyzed: 7/31/09 -  
 8/ 4/09

Matrix Spike Summary  
 Inorganic Parameters

Sample Name: MWB2I  
 Lab Code: J0903644-002

Units: µg/L  
 Basis: NA

Analytical Method: 6020  
 Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0903644-MS2			Duplicate Matrix Spike J0903644-DMS2			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Antimony, Total	ND	54.0	50.0	108	51.9	50.0	104	75 - 125	4	20
Arsenic, Total	ND	53.2	50.0	106	51.3	50.0	103	75 - 125	4	20
Barium, Total	21.6	74.3	50.0	105	69.6	50.0	96	75 - 125	7	20
Beryllium, Total	ND	51.7	50.0	103	49.6	50.0	99	75 - 125	4	20
Cadmium, Total	ND	51.6	50.0	103	48.9	50.0	98	75 - 125	5	20
Chromium, Total	ND	50.8	50.0	102	46.8	50.0	94	75 - 125	8	20
Cobalt, Total	ND	53.0	50.0	106	50.3	50.0	101	75 - 125	5	20
Copper, Total	0.6	54.7	50.0	108	54.0	50.0	107	75 - 125	1	20
Lead, Total	ND	51.2	50.0	102	48.2	50.0	96	75 - 125	6	20
Nickel, Total	0.6	52.2	50.0	103	49.9	50.0	99	75 - 125	4	20
Selenium, Total	ND	47.3	50.0	95	47.0	50.0	94	75 - 125	1	20
Silver, Total	0.10	52.8	50.0	105	52.8	50.0	105	75 - 125	0	20
Thallium, Total	ND	50.8	50.0	102	47.9	50.0	96	75 - 125	6	20
Vanadium, Total	1.3	50.6	50.0	99	47.0	50.0	91	75 - 125	7	20
Zinc, Total	ND	101	100	101	99.9	100	100	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:** J0903644  
**Date Collected:** 7/23/09  
**Date Received:** 7/24/09  
**Date Analyzed:** 7/30/09

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

**Sample Name:** MWB29S  
**Lab Code:** J0903644-003

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 7470A  
**Prep Method:** Method

Analyte Name	Sample Result	Matrix Spike J0903644-MS3			Duplicate Matrix Spike J0903644-DMS3			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Mercury, Total	ND	5.81	5.00	116	5.54	5.00	111	75 - 125	5	20

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903644  
**Date Collected:** 7/23/09  
**Date Received:** 7/24/09  
**Date Analyzed:** 7/29/09

**Matrix Spike Summary  
 Inorganic Parameters**

**Sample Name:** MWB22S  
**Lab Code:** J0903644-011

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 6010B  
**Prep Method:** EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903644-MS4			Duplicate Matrix Spike J0903644-DMS4			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Iron, Total	204	2280	2000	104	2270	2000	103	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: J0903644  
 Date Collected: 7/23/09  
 Date Received: 7/24/09  
 Date Analyzed: 7/29/09

Matrix Spike Summary  
 Inorganic Parameters

Sample Name: MWB22S  
 Lab Code: J0903644-011

Units: mg/L  
 Basis: NA

Analytical Method: 6010B  
 Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903644-MS4			Duplicate Matrix Spike J0903644-DMS4			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Sodium, Total	5.81	16.3	10.0	105	16.0	10.0	102	75 - 125	2	20

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903644  
**Date Analyzed:** 7/28/09 -  
 8/ 4/09

**Lab Control Sample Summary  
 Inorganic Parameters**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903644-LCS2			% Rec Limits
		Result	Expected	% Rec	
Antimony, Dissolved	6020	51.8	50.0	104	80 - 120
Antimony, Total	6020	54.4	50.0	109	80 - 120
Arsenic, Dissolved	6020	52.4	50.0	105	80 - 120
Arsenic, Total	6020	54.1	50.0	108	80 - 120
Barium, Dissolved	6020	50.1	50.0	100	80 - 120
Barium, Total	6020	52.0	50.0	104	80 - 120
Beryllium, Total	6020	50.5	50.0	101	80 - 120
Cadmium, Total	6020	50.1	50.0	100	80 - 120
Chromium, Dissolved	6020	50.4	50.0	101	80 - 120
Chromium, Total	6020	49.7	50.0	99	80 - 120
Cobalt, Total	6020	55.0	50.0	110	80 - 120
Copper, Dissolved	6020	51.8	50.0	104	80 - 120
Copper, Total	6020	52.6	50.0	105	80 - 120
Iron, Dissolved	6010B	1980	2000	99	80 - 120
Iron, Total	6010B	2050	2000	102	80 - 120
Lead, Dissolved	6020	49.3	50.0	99	80 - 120
Lead, Total	6020	50.7	50.0	101	80 - 120
Manganese, Dissolved	6020	50.5	50.0	101	80 - 120
Molybdenum, Dissolved	6020	49.7	50.0	99	80 - 120
Nickel, Dissolved	6020	50.0	50.0	100	80 - 120
Nickel, Total	6020	53.9	50.0	108	80 - 120
Selenium, Dissolved	6020	51.7	50.0	103	80 - 120
Selenium, Total	6020	50.6	50.0	101	80 - 120
Silver, Total	6020	50.3	50.0	101	80 - 120
Thallium, Total	6020	50.5	50.0	101	80 - 120
Vanadium, Dissolved	6020	51.0	50.0	102	80 - 120
Vanadium, Total	6020	47.8	50.0	96	80 - 120
Zinc, Dissolved	6020	104	100	104	80 - 120
Zinc, Total	6020	97.1	100	97	80 - 120

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

**Service Request:** J0903644  
**Date Analyzed:** 7/30/09

**Lab Control Sample Summary**  
**Sodium, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry**

**Units:** mg/L  
**Basis:** NA

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

Comments: \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903644  
**Date Analyzed:** 7/30/09

**Lab Control Sample Summary**  
**Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903644-LCS1			Duplicate Lab Control Sample J0903644-DLCS1			% Rec Limits	RPD	RPD Limit
		Result	Expected	% Rec	Result	Expected	% Rec			
Mercury, Total	7470A	5.30	5.00	106	5.18	5.00	104	80 - 120	2	20

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

**Service Request:** J0903644  
**Date Analyzed:** 7/28/09 -  
7/29/09

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample			% Rec Limits
		Result	Expected	% Rec	
Sodium, Dissolved	6010B	10.5	10.0	105	80 - 120
Sodium, Total	6010B	10.7	10.0	107	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 :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/24-08/04/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB2S  
**Lab Code :** J0903644-001DUP  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate		Average	Relative Percent Difference	Result Notes
					Sample Result	Sample Result			
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.049	0.044	0.0465	11	i	
Chloride	mg/L (ppm)	300.0	0.2	7.3	7.3	7.3	<1		
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.16	0.16	0.16	<1	i	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/24-08/04/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MWB2S  
**Lab Code :** J0903644-001MS  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	0.049	5.53	110	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	7.3	108	101	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	0.16	5.35	104	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/30/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB29S  
**Lab Code :** J0903644-003DUP  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	50	49	49.5	2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/24-08/04/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB22S  
**Lab Code :** J0903644-011DUP  
**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	0.14	0.14	0.14	<1	
Chloride	mg/L (ppm)	300.0	0.2	8.4	8.4	8.4	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** 07/23/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/24-08/04/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MWB22S  
**Lab Code :** J0903644-011MS  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	0.14	4.66	90	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	8.4	111	103	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.44	109	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** 07/24/09  
**Date Received :** 07/24/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/30/09

Duplicate Summary  
Inorganic Parameters

**Sample Name :** MWB12D  
**Lab Code :** J0903644-014DUP  
**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)	160.1	10	210	210	210	<1	



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903644  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 07/24-08/04/09

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** J0903644-LCS  
**Test Notes :**

**Basis :** NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.21	104	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.21	104	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.13	103	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	291	97	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	282	94	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	287	96	85-115	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: HDR Service Request # 50903644  
 Project: Trail Ridge  
 Cooler received on 7.24.09 and opened on 7.24.09 by GPB

COURIER: CAS UPS FEDEX DHL CLIENT Tracking #

- |    |  |                    |           |            |
|----|--|--------------------|-----------|------------|
| 1  | Were custody seals on outside of cooler?   | Yes                | <u>No</u> | N/A        |
| 2  | Were seals intact, signed and dated?   | Yes                | No        | <u>N/A</u> |
| 3  | Were custody papers properly filled out?   | <u>Yes</u>         | No        | N/A        |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)  | <u>3.8°C 5.4°C</u> |           |            |
| 5  | Correct Temperature?   | <u>Yes</u>         | No        | N/A        |
| 6  | Were Ice or Ice Packs present  | <u>Yes</u>         | No        | N/A        |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?  | <u>Yes</u>         | No        | N/A        |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?  | <u>Yes</u>         | No        | N/A        |
| 9  | Did all bottle labels and tags agree with custody papers?  | <u>Yes</u>         | No        | N/A        |
| 10 | Were the correct bottles used for the tests indicated?   | <u>Yes</u>         | No        | N/A        |
| 11 | Were all of the preserved bottles received with the appropriate preservative?  | <u>Yes</u>         | No        | N/A        |
|    | <u>HNO3 pH&lt;2</u> <u>H2SO4 pH&lt;2</u> ZnAc2/NaOH pH>9 NaOH pH>12 <u>HCl pH&lt;2</u><br>Preservative additions noted below |                    |           |            |
| 12 | Were all samples received within analysis holding times?   | <u>Yes</u>         | No        | N/A        |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below  | <u>Yes</u>         | No        | N/A        |
| 14 | Where did the bottles originate?   | <u>CAS</u>         | Client    |            |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date: 30

SR #: JD903644 Date: 7.24.09 Initials: CS

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on 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	
Container	G	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.	
Pres.		HCl	Sodium Thiosulfate	H2SO4	HCl	H2SO4	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3	H2SO4	HNO3			HNO3	HCl	H2SO4									
Req. pH	N/A	<2	N/A	<2	<2	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A		
Sample #																															
-001		3																													
-002																															
-003																															
-004																															
-005																															
-006																															
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-038																															
-039																															
-040																															





# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 2 OF 2

SR # 509033644

CAS Contact

Project Name: TRAIL RIDGE  
 Project Manager: BAD STONE  
 Company/Address: 200 W FAUSYTH ST STE 800  
JACKSONVILLE FL 32202  
 Phone #: 904 598 8553  
 Sampler's Signature: Ben Ramsey  
 Sampler's Printed Name: BEN RAMSEY  
 Project Number: [REDACTED]  
 Email Address: [REDACTED]  
 FAX#: [REDACTED]

PRESERVATIVE	ANALYSIS REQUESTED (Include Method Number)			REMARKS/ ALTERNATE DESCRIPTION
	MMS	HAZ	HAZ	
	METALS	NH3	TDS/CL/NO3	
			TOC	
			BE11	
			DSS: METALS (F)	

CLIENT SAMPLE ID	LAB ID	SAMPLING		MATRIX
		DATE	TIME	
MWB22S		7/23	1638 GW	9
DUP01		7/23	1208 GW	9
MWB12S		7/24	0854 GW	9
MWB12D		7/24	0927 GW	10
MWB12I		7/24	1015 GW	9
MWB11S		7/24	1050 GW	9
MWB11I(R)		7/24	1116 GW	9
DUP02		7/24	GW	9

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP

TURNAROUND REQUIREMENTS  
 RUSH (SURCHARGES APPLY)  
 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. Specialized Forms / Custom Report  
 Edata  Yes  No

INVOICE INFORMATION  
 PO# \_\_\_\_\_  
 BILL TO: \_\_\_\_\_

CUSTOMY SEALS: Y N

RECEIVED BY	RECEIVED BY
Signature: <u>Ben Ramsey</u>	Signature: _____
Printed Name: <u>BEN RAMSEY</u>	Printed Name: _____
Firm: <u>PRC-TECH</u>	Firm: _____
Date/Time: <u>07/24/09 1200</u>	Date/Time: _____

# **Appendix A**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17181  
 WACS Testsite Name: MWB2S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 9:50:00AM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 3:27:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 3:27:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 5:16:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 3:27:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 3:27:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 5:16:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 3:27:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 3:27:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 3:27:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 3:27:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 3:27:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 3:27:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 3:27:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 3:27:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.049	0.025	MG/L	I
1097	Antimony, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.42	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	7/31/2009 5:40:00AM	14.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 3:27:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 3:27:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 3:27:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 3:27:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 3:27:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	7.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 3:27:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 3:27:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 5:40:00AM	2.2	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 3:27:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 3:27:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 12:18:00AM	8.1	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

Page 1 of 2

Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17181  
 WACS Testsite Name: MWB2S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/23/2009 9:50:00AM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 3:27:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 9:50:00AM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 3:27:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 3:27:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 9:50:00AM	138.74		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 3:27:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:25:00PM	334		UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.8	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 3:27:00PM	0.5	0.22	UG/L	I
71900	Mercury, Total	N	E82502	7470A	7/30/2009 4:55:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 3:27:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 5:40:00AM	2.1	0.3	UG/L	
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 4:13:00PM	0.16	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 3:27:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 9:50:00AM	3.81		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/4/2009 12:18:00AM	0.2	0.08	UG/L	I
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:25:00PM	3.97	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 9:50:00AM	71		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 3:27:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 9:50:00AM	25		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 3:27:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 5:40:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 3:27:00PM	0.91	0.52	UG/L	I
515	Total Dissolved Solids	N	E82502	160.1	7/29/2009 5:30:00PM	41	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 3:27:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 3:27:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 3:27:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 3:27:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 9:50:00AM	14.1		NTU	
1087	Vanadium, Total	N	E82502	6020	7/31/2009 5:40:00AM	2.8	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 3:27:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 3:27:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 12:18:00AM	15	4	UG/L	

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17180  
 WACS Testsite Name: MWB21  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 10:20:00AM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 3:54:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 3:54:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 3:54:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 5:38:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 3:54:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 5:38:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 3:54:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 3:54:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 3:54:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 3:54:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 3:54:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 3:54:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 3:54:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 3:54:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 5:45:00AM	21.6	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 3:54:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 3:54:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 3:54:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 3:54:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 3:54:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	7.5	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 3:54:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 3:54:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 3:54:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 3:54:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 12:22:00AM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP <sup>137</sup>Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17180  
 WACS Testsite Name: MWB2I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 10:20:00AM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 3:54:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 10:20:00AM	0.7		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 3:54:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 3:54:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 10:20:00AM	136.48		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 3:54:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:38:00PM	388	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 3:54:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 4:56:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 3:54:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.6	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 4:58:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 3:54:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 10:20:00AM	4.27		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/4/2009 12:22:00AM	0.1	0.08	UG/L	I
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:38:00PM	4.74	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 10:20:00AM	46		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 3:54:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 10:20:00AM	22.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 3:54:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 5:45:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 3:54:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/29/2009 5:30:00PM	29	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 3:54:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 3:54:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 3:54:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 3:54:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 10:20:00AM	0.5		NTU	
1087	Vanadium, Total	N	E82502	6020	7/31/2009 5:45:00AM	1.3	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 3:54:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 3:54:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 12:22:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20104  
 WACS Testsite Name: MWB29S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/23/2009 11:00:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 4:20:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 4:20:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 6:00:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 4:20:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 6:00:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 4:20:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 4:20:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 4:20:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 4:20:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 4:20:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 4:20:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 4:20:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 4:20:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 4:20:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.25	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.32	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	7/31/2009 6:24:00AM	12.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 4:20:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 4:20:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 4:20:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 4:20:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 4:20:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	12	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 4:20:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 4:20:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.8	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 4:20:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 4:20:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.3	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/4/2009 12:57:00AM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20104  
 WACS Testsite Name: MWB29S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 11:00:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 4:20:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 11:00:00AM	0.5		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 4:20:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 4:20:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 11:00:00AM	130.82		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 4:20:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:41:00PM	808	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 4:20:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 4:44:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 4:20:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.7	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 5:13:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 4:20:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 11:00:00AM	4.15		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:41:00PM	7.74	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 11:00:00AM	90		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 4:20:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 11:00:00AM	26.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 4:20:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:24:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 4:20:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	50	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 4:20:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 4:20:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 4:20:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 4:20:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 11:00:00AM	0.7		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 12:57:00AM	2	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 4:20:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 4:20:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 12:57:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20105  
 WACS Testsite Name: MWB29I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 11:30:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 4:47:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 4:47:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 4:47:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 6:21:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 6:21:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 4:47:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 4:47:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 4:47:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 4:47:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 4:47:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 4:47:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 4:47:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 4:47:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 4:47:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.11	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:29:00AM	44.6	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 4:47:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 4:47:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 4:47:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 4:47:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 4:47:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	5.9	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 4:47:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 4:47:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:29:00AM	1.2	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 4:47:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 4:47:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:01:00AM	0.3	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP <sup>141</sup>Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20105  
 WACS Testsite Name: MWB29I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 11:30:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 4:47:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 11:30:00AM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 4:47:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 4:47:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 11:30:00AM	132.59		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 4:47:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:43:00PM	458	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:29:00AM	1.2	0.2	UG/L	
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 4:47:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 4:57:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 4:47:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.7	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 5:28:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 4:47:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 11:30:00AM	4.7		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:43:00PM	3.6	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 11:30:00AM	45		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 4:47:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 11:30:00AM	23.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 4:47:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:29:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 4:47:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	27	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 4:47:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 4:47:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 4:47:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 4:47:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 11:30:00AM	24.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:01:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 4:47:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 4:47:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:01:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20106  
 WACS Testsite Name: MWB29D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 12:08:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 5:14:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 5:14:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 6:43:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 5:14:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 5:14:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 6:43:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 5:14:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 5:14:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 5:14:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 5:14:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 5:14:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 5:14:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 5:14:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 5:14:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.067	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:34:00AM	52.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 5:14:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 5:14:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 5:14:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 5:14:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 5:14:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	6.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 5:14:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 5:14:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:34:00AM	1.1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 5:14:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 5:14:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:06:00AM	0.8	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20106  
 WACS Testsite Name: MWB29D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 12:08:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 5:14:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 12:08:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 5:14:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 5:14:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 12:08:00PM	132.55		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 5:14:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/30/2009 1:03:00PM	730	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.4	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 5:14:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 4:59:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 5:14:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:34:00AM	4.1	0.3	UG/L	
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 5:43:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 5:14:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 12:08:00PM	5.14		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/30/2009 1:02:00PM	3.86	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 12:08:00PM	77		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 5:14:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 12:08:00PM	23.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 5:14:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:34:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 5:14:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	57	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 5:14:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 5:14:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 5:14:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 5:14:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 12:08:00PM	0.8		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:06:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 5:14:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 5:14:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:06:00AM	4	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17207  
 WACS Testsite Name: MWB27S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 1:25:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 5:41:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 7:27:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 5:41:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 7:27:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 5:41:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 5:41:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 5:41:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 5:41:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 5:41:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 5:41:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 5:41:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 5:41:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 5:41:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.31	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.92	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:39:00AM	13.6	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 5:41:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 5:41:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 5:41:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 5:41:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 5:41:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	17	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 5:41:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 5:41:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:39:00AM	2	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 5:41:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 5:41:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/4/2009 1:10:00AM	2	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17207  
 WACS Testsite Name: MWB27S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/23/2009 1:25:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 5:41:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 1:25:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 5:41:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 5:41:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 1:25:00PM	121.92		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 5:41:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:46:00PM	224	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.4	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 5:41:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:00:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 5:41:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:39:00AM	1.6	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 5:58:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 5:41:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 1:25:00PM	4.66		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:46:00PM	11.5	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 1:25:00PM	144		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 5:41:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 1:25:00PM	24.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 5:41:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:39:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 5:41:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	97	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 5:41:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 5:41:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 5:41:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 5:41:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 1:25:00PM	16.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:10:00AM	7	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 5:41:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 5:41:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:10:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17206  
 WACS Testsite Name: MWB271  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 2:25:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 6:07:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 7:50:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 6:07:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 6:07:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 7:50:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 6:07:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 6:07:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 6:07:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 6:07:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 6:07:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 6:07:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.076	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:44:00AM	48.5	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 6:07:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 6:07:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	5.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:14:00AM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
WACS Testsite ID #: 17206  
WACS Testsite Name: MWB271  
Water Classification: G-II  
(i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 2:25:00PM  
Sampling Method:  
Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 2:25:00PM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 2:25:00PM	122.51		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 6:07:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:49:00PM	450	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.2	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 6:07:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:02:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.8	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 6:13:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 2:25:00PM	5.08		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:49:00PM	3.56	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 2:25:00PM	60		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 6:07:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 2:25:00PM	22.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:44:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 6:07:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	44	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 6:07:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 2:25:00PM	4.9		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:14:00AM	1.7	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 6:07:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:14:00AM	5	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17205  
 WACS Testsite Name: MWB27D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 1:58:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 6:34:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 8:12:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 6:34:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 8:12:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 6:34:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 6:34:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 6:34:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 6:34:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 6:34:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 6:34:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 6:34:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.078	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:49:00AM	50.8	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 6:34:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 6:34:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	5.8	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:19:00AM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17205  
 WACS Testsite Name: MWB27D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 1:58:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 1:58:00PM	0.6		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 1:58:00PM	122.4		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 6:34:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:56:00PM	688	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 6:34:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:03:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:49:00AM	1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 6:27:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 1:58:00PM	5.37		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:56:00PM	3.82	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 1:58:00PM	100		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 6:34:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 1:58:00PM	24.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:49:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 6:34:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	63	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 6:34:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 1:58:00PM	0.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:19:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 6:34:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:19:00AM	34	4	UG/L	

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17357  
 WACS Testsite Name: MWB13S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 3:20:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:01:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:01:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 8:34:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 8:34:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:01:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:01:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:01:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:01:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:01:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:01:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:01:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:01:00PM	11	2.4	UG/L	I
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:01:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.082	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.59	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	7/31/2009 6:54:00AM	14	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 7:01:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:01:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:01:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:01:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:01:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	35	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:01:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:01:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:54:00AM	9.8	0.8	UG/L	
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:01:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:01:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:23:00AM	4.1	0.3	UG/L	
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17357  
 WACS Testsite Name: MWB13S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 3:20:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:01:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 3:20:00PM	1.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:01:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:01:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 3:20:00PM	109.26		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:01:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 9:59:00PM	1420	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:54:00AM	1.3	0.2	UG/L	
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:01:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:05:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:01:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:54:00AM	1.3	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 7:27:00PM	0.201	0.038	MG/L	
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:01:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 3:20:00PM	5.02		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:54:00AM	8.4	0.8	UG/L	
1077	Silver, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 9:59:00PM	20.6	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 3:20:00PM	321		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:01:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 3:20:00PM	31.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:01:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:54:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:01:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	180	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:01:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:01:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:01:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:01:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 3:20:00PM	24.8		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:23:00AM	61.1	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:01:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:01:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:23:00AM	6	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17358  
 WACS Testsite Name: MWB131  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 3:55:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 7:28:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:28:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 8:56:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:28:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 8:56:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:28:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:28:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:28:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:28:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:28:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:28:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:28:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:28:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:28:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.04	0.025	MG/L	I
1097	Antimony, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 6:59:00AM	29.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 7:28:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:28:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.17	0.12	UG/L	I
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:28:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:28:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:28:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	5.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:28:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:28:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 6:59:00AM	1.1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:28:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:28:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:27:00AM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP 153 Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17358  
 WACS Testsite Name: MWB13I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 3:55:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:28:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 3:55:00PM	0.4		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:28:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:28:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 3:55:00PM	108.4		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:28:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:02:00PM	311		UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:28:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:06:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:28:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 7:42:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:28:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 3:55:00PM	4.72		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:02:00PM	3.45	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 3:55:00PM	41		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:28:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 3:55:00PM	26		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:28:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 6:59:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:28:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	35	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:28:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:28:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:28:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:28:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 3:55:00PM	0.9		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:27:00AM	1.7	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:28:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:28:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:27:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17201  
 WACS Testsite Name: MWB22S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 4:38:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 7:55:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:55:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 9:18:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:55:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:55:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 9:18:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:55:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:55:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:55:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:55:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:55:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:55:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:55:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:55:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.14	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.25	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	7/31/2009 7:04:00AM	5.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 7:55:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:55:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:55:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:55:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:55:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	8.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:55:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:55:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:04:00AM	2	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:55:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:55:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:32:00AM	1.5	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP 155 Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17201  
 WACS Testsite Name: MWB22S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 4:38:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:55:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 4:38:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:55:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:55:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 4:38:00PM	114.94		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:55:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:04:00PM	204	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.5	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:55:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:08:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:55:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:04:00AM	1.1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 7:57:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:55:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 4:38:00PM	5.3		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:04:00PM	5.81	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 4:38:00PM	195		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:55:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 4:38:00PM	25.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:55:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:04:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:55:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	130	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:55:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:55:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:55:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:55:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 4:38:00PM	7.4		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:32:00AM	1.9	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:55:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:55:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:32:00AM	8	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP01  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 12:08:00PM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 8:21:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 8:21:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 8:21:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 9:40:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 8:21:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 9:40:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:21:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 8:21:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:21:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 8:21:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 8:21:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 8:21:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 8:21:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 8:21:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.094	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:23:00AM	51.5	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 8:21:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 8:21:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 8:21:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 8:21:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 8:21:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	6.5	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 8:21:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 8:21:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:23:00AM	1.1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:21:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:21:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:49:00AM	0.3	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP <sup>157</sup> Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP01  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/23/2009 12:08:00PM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (BOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 8:21:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/23/2009 12:08:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 8:21:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 8:21:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/23/2009 12:08:00PM	132.55		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 8:21:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:12:00PM	800	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.3	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 8:21:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:12:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 8:21:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 8:42:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 8:21:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/23/2009 12:08:00PM	5.14		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:12:00PM	4.03	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/23/2009 12:08:00PM	77		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 8:21:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/23/2009 12:08:00PM	23.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 8:21:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:23:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 8:21:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 4:30:00PM	59	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:21:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:21:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 8:21:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 8:21:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/23/2009 12:08:00PM	0.8		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:49:00AM	1.3	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 8:21:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 8:21:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:49:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17191  
 WACS Testsite Name: MWB12S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 8:54:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 8:48:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 8:48:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 10:02:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 8:48:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 10:02:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 8:48:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:48:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 8:48:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:48:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 8:48:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 8:48:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 8:48:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 8:48:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 8:48:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.025	0.025	MG/L	U
1095	ANTIMONY, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	0.5	0.4	UG/L	I
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.7	0.4	UG/L	I
1000	ARSENIC, DISSOLVED	Y	E82502	6020	8/5/2009 8:18:00PM	0.28	0.2	UG/L	I
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.31	0.2	UG/L	I
1005	BARIUM, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	3.7	0.5	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:28:00AM	10.8	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 8:48:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 8:48:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 8:48:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 8:48:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 8:48:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	8.8	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 8:48:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 8:48:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.17	0.17	UG/L	U
1030	CHROMIUM, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	2.1	0.8	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:28:00AM	4.2	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:48:00PM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17191  
 WACS Testsite Name: MWB12S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 8:54:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:48:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.2	0.2	UG/L	U
1040	COPPER, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	1	0.3	UG/L	I
1042	Copper, Total	N	E82502	6020	8/4/2009 1:53:00AM	3.6	0.3	UG/L	
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/30/2009 8:48:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 8:54:00AM	1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 8:48:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 8:48:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 8:54:00AM	113.91		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 8:48:00PM	2.5	2.5	UG/L	U
1046	IRON, DISSOLVED	Y	E82502	6010B	7/28/2009 6:34:00PM	12	4	UG/L	I
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:15:00PM	152	4	UG/L	
1049	LEAD, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	0.2	0.2	UG/L	U
1051	Lead, Total	N	E82502	6020	7/31/2009 7:28:00AM	1.8	0.2	UG/L	
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 8:48:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:14:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 8:48:00PM	0.72	0.72	UG/L	U
1065	NICKEL, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	0.9	0.3	UG/L	I
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:28:00AM	1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 8:57:00PM	0.35	0.038	MG/L	
77135	o-Xylene	N	E82502	8260B	7/30/2009 8:48:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 8:54:00AM	5.29		pH Units	
1145	SELENIUM, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	8.2	0.8	UG/L	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:28:00AM	11	0.8	UG/L	
1077	Silver, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.08	0.08	UG/L	U
930	SODIUM, DISSOLVED	Y	E82502	6010B	7/28/2009 6:34:00PM	5.75	0.02	MG/L	
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:15:00PM	6.22	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 8:54:00AM	173		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 8:48:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 8:54:00AM	24.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 8:48:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:28:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 8:48:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	150	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:48:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:48:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 8:48:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 8:48:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 8:54:00AM	54.9		NTU	
1085	VANADIUM, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	103	1.2	UG/L	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:53:00AM	112	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 8:48:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 8:48:00PM	0.25	0.25	UG/L	U
1090	ZINC, DISSOLVED	Y	E82502	6020	7/30/2009 5:01:00PM	4	4	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:53:00AM	4	4	UG/L	I

Total Parameters Monitored: 90

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

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Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17189  
 WACS Testsite Name: MWB12D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 9:27:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 9:15:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 9:15:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 10:25:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 9:15:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 10:25:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 9:15:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:15:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 9:15:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:15:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 9:15:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 9:15:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 9:15:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 9:15:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 9:15:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.19	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:33:00AM	117	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 9:15:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 9:15:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 9:15:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 9:15:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 9:15:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	4.2	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 9:15:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 9:15:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:15:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:15:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 1:57:00AM	0.3	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17189  
 WACS Testsite Name: MWB12D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 9:27:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 9:15:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 9:27:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 9:15:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 9:15:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 9:27:00AM	116.86		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 9:15:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:18:00PM	813	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 9:15:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:15:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 9:15:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:33:00AM	1.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 9:12:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 9:15:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 9:27:00AM	6.7		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:17:00PM	6.39	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 9:27:00AM	463		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 9:15:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 9:27:00AM	24.6		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 9:15:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:33:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 9:15:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	210	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:15:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:15:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 9:15:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 9:15:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 9:27:00AM	1.7		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 1:57:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 9:15:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 9:15:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 1:57:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17190  
 WACS Testsite Name: MWB121  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 10:15:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 9:41:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 9:41:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 9:41:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 10:47:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 10:47:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 9:41:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:41:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 9:41:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:41:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 9:41:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 9:41:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 9:41:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 9:41:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 9:41:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:38:00AM	49	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 9:41:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 9:41:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 9:41:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 9:41:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 9:41:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	5.4	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 9:41:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 9:41:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:41:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:41:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 2:02:00AM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17190  
 WACS Testsite Name: MWB12I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 10:15:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 9:41:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 10:15:00AM	1.3		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 9:41:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 9:41:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 10:15:00AM	119.32		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 9:41:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:20:00PM	303	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 9:41:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:17:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 9:41:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 9:27:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 9:41:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 10:15:00AM	4.85		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:20:00PM	3.36	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 10:15:00AM	45		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 9:41:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 10:15:00AM	24.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 9:41:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:38:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 9:41:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	35	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:41:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:41:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 9:41:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 9:41:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 10:15:00AM	0.7		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 2:02:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 9:41:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 9:41:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 2:02:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17188  
 WACS Testsite Name: MWB11S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 10:50:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 10:08:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 10:08:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 10:08:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 11:31:00PM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 11:31:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 10:08:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:08:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 10:08:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:08:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 10:08:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 10:08:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 10:08:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 10:08:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 10:08:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.15	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.43	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	7/31/2009 7:43:00AM	73.5	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 10:08:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 10:08:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 10:08:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 10:08:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 10:08:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	27	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 10:08:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 10:08:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:08:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:08:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.9	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/4/2009 2:06:00AM	0.3	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP 165 Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17188  
 WACS Testsite Name: MWB11S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/24/2009 10:50:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 10:08:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 10:50:00AM	0.3		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 10:08:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 10:08:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 10:50:00AM	109.43		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 10:08:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:28:00PM	1930	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 10:08:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:18:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 10:08:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:43:00AM	1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 9:42:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 10:08:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 10:50:00AM	3.77		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:28:00PM	15.2	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 10:50:00AM	237		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 10:08:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 10:50:00AM	24.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 10:08:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:43:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 10:08:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	130	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:08:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:08:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 10:08:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 10:08:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 10:50:00AM	0.1		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 2:06:00AM	8	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 10:08:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 10:08:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 2:06:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20848  
 WACS Testsite Name: MWB111(R)  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 11:16:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 10:35:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 10:35:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/4/2009 11:53:00PM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 10:35:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 10:35:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/4/2009 11:53:00PM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:35:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 10:35:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:35:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 10:35:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 10:35:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 10:35:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 10:35:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 10:35:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.11	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:48:00AM	45.3	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 10:35:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 10:35:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 10:35:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 10:35:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 10:35:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	6.8	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 10:35:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 10:35:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:48:00AM	4.9	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:35:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:35:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 2:10:00AM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20848  
 WACS Testsite Name: MWB11I(R)  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 11:16:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 10:35:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 11:16:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 10:35:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 10:35:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 11:16:00AM	109.13		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 10:35:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:31:00PM	635	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:48:00AM	1.4	0.2	UG/L	
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 10:35:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:19:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 10:35:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 10:42:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 10:35:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 11:16:00AM	4.67		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:31:00PM	3.45	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 11:16:00AM	43		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 10:35:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 11:16:00AM	24.8		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 10:35:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:48:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 10:35:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	35	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:35:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:35:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 10:35:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 10:35:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 11:16:00AM	19.4		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 2:10:00AM	10	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 10:35:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 10:35:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 2:10:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP02  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:02:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:02:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 12:15:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:02:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 12:15:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:02:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:02:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:02:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:02:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:02:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 11:02:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:02:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 11:02:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:02:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/4/2009 5:14:00PM	0.19	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	7/31/2009 7:53:00AM	116	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 11:02:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 11:02:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:02:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:02:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 11:02:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/24/2009 1:14:00PM	4.2	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:02:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 11:02:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:02:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:02:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/4/2009 2:15:00AM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
WACS Testsite ID #: \_\_\_\_\_  
WACS Testsite Name: DUP02  
Water Classification: G-II  
(i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 12:00:00AM  
Sampling Method: \_\_\_\_\_  
Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 11:02:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/24/2009 9:27:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:02:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:02:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/24/2009 9:27:00AM	116.86		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:02:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	7/29/2009 10:33:00PM	778	4	UG/L	
1051	Lead, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:02:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	7/30/2009 5:21:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:02:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	7/31/2009 7:53:00AM	1.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/24/2009 10:57:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 11:02:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/24/2009 9:27:00AM	6.7		pH Units	
1147	Selenium, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	7/29/2009 10:33:00PM	6.17	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/24/2009 9:27:00AM	463		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 11:02:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/24/2009 9:27:00AM	24.6		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:02:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	7/31/2009 7:53:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 11:02:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	7/30/2009 6:00:00PM	220	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:02:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:02:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:02:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 11:02:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/24/2009 9:27:00AM	1.7		NTU	
1087	Vanadium, Total	N	E82502	6020	8/4/2009 2:15:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:02:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:02:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/4/2009 2:15:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank 1  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:28:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:28:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:28:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:28:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:28:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:28:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:28:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:28:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 11:28:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:28:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 11:28:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:28:00PM	0.59	0.59	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 11:28:00PM	0.52	0.52	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 11:28:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.14	0.14	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:28:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:28:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 11:28:00PM	0.25	0.25	UG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:28:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 11:28:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.17	0.17	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:28:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:28:00PM	0.12	0.12	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/30/2009 11:28:00PM	0.12	0.12	UG/L	U
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:28:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:28:00PM	0.15	0.15	UG/L	U
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:28:00PM	2.5	2.5	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:28:00PM	0.22	0.22	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:28:00PM	0.72	0.72	UG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 11:28:00PM	0.1	0.1	UG/L	U
77128	Styrene	N	E82502	8260B	7/30/2009 11:28:00PM	0.051	0.051	UG/L	U
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:28:00PM	0.22	0.22	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 11:28:00PM	0.52	0.52	UG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:28:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:28:00PM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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WACS Facility ID #: 33628  
 WACS Testsite ID #:  
 WACS Testsite Name: Trip Blank 1  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/24/2009 12:00:00AM  
 Sampling Method:  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:28:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 11:28:00PM	0.15	0.15	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:28:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:28:00PM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge Landfill

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #:  
 WACS Testsite Name: Trip Blank 2  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/24/2009 12:00:00AM  
 Sampling Method:  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:55:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:55:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:55:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:55:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:55:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:55:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:55:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:55:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 11:55:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:55:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 11:55:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:55:00PM	0.59	0.59	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 11:55:00PM	0.52	0.52	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 11:55:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.14	0.14	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:55:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:55:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 11:55:00PM	0.25	0.25	UG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:55:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 11:55:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.17	0.17	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:55:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:55:00PM	0.12	0.12	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/30/2009 11:55:00PM	0.12	0.12	UG/L	U
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:55:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:55:00PM	0.15	0.15	UG/L	U
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:55:00PM	2.5	2.5	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:55:00PM	0.22	0.22	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:55:00PM	0.72	0.72	UG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 11:55:00PM	0.1	0.1	UG/L	U
77128	Styrene	N	E82502	8260B	7/30/2009 11:55:00PM	0.051	0.051	UG/L	U
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:55:00PM	0.22	0.22	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 11:55:00PM	0.52	0.52	UG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:55:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:55:00PM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank 2  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/24/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:55:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 11:55:00PM	0.15	0.15	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:55:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:55:00PM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

August 12, 2009

Service Request No: J0903685

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

**Laboratory Results for: Trail Ridge**

Dear Handi:

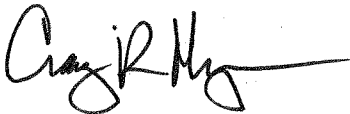
Enclosed are the results of the sample(s) submitted to our laboratory on July 28, 2009. For your reference, these analyses have been assigned our service request number **J0903685**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

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COLUMBIA ANALYTICAL SERVICES, INC.

Client: HDR Engineering  
Project: Trail Ridge  
Sample Matrix: Water

Service Request No.: J0903685  
Date Received: 7/28/09

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**

Seventeen water samples and two trip blanks were received for analysis at Columbia Analytical Services on 7/28/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at  $4\pm 2^{\circ}\text{C}$  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 recovery of Bromomethane for sample MWB 20SMS was outside the control criterion. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

**Relative Percent Difference Exceptions**

The Relative Percent Difference (RPD) for the following analyte in the replicate matrix spike analyses of sample MWB 20S was outside the control criterion: 1,2-Dibromo-3-chloropropane (DBCP). All spike recoveries in the MS, DMS, and associated Laboratory Control Sample (LCS) were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

**EDB and DBCP by GC-ECD**

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

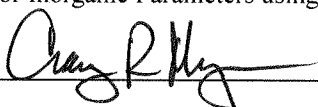
**Metals by ICP-MS/ICP-OES/CVAA**

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

**General Chemistry Parameters**

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

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/12/09



## 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

Service Request: J0903685

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903685-001	MWB 20S	7/28/09	08:20
J0903685-002	MWB 7S	7/28/09	08:50
J0903685-003	MWB 7D	7/28/09	09:18
J0903685-004	DUP03	7/28/09	09:18
J0903685-005	MWB 7I	7/28/09	09:45
J0903685-006	MWB 19I	7/28/09	10:16
J0903685-007	MWB 19D	7/28/09	10:45
J0903685-008	MWB 19S	7/28/09	11:11
J0903685-009	MWB 17S	7/28/09	11:38
J0903685-010	MWB 17I	7/28/09	12:33
J0903685-011	MWB 17D	7/28/09	12:05
J0903685-012	MWB 3I	7/28/09	13:07
J0903685-013	MWB 3S	7/28/09	13:32
J0903685-014	MWB 31D	7/28/09	14:03
J0903685-015	MWB 34D	7/28/09	14:40
J0903685-016	MWB 34I	7/28/09	15:13
J0903685-017	MWB 34S	7/28/09	15:35
J0903685-018	Trip Blank 1	7/28/09	00:00
J0903685-019	Trip Blank 2	7/28/09	00:00

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 20S  
**Lab Code:** J0903685-001  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 20S  
**Lab Code:** J0903685-001  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	74	71-122	Acceptable
4-Bromofluorobenzene	103	75-120	Acceptable
Dibromofluoromethane	90	82-116	Acceptable
Toluene-d8	105	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 7S  
**Lab Code:** J0903685-002  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 7S  
**Lab Code:** J0903685-002  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

**Comments:**

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## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

## Appendix I Volatile Organic Compounds by GC/MS

**Sample Name:** MWB 7D  
**Lab Code:** J0903685-003  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 7D  
**Lab Code:** J0903685-003  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	95	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP03  
 Lab Code: J0903685-004  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP03  
**Lab Code:** J0903685-004  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	90	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	92	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

**Comments:**

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## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 71  
 Lab Code: J0903685-005  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 7I  
**Lab Code:** J0903685-005  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	91	82-116	Acceptable
Toluene-d8	93	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 19I  
**Lab Code:** J0903685-006  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 19I  
**Lab Code:** J0903685-006  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

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	96	88-117	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 19D  
 Lab Code: J0903685-007  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 19D  
 Lab Code: J0903685-007  
 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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	93	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 19S  
**Lab Code:** J0903685-008  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 19S  
**Lab Code:** J0903685-008  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	91	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 17S  
**Lab Code:** J0903685-009  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 17S  
**Lab Code:** J0903685-009  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	95	82-116	Acceptable
Toluene-d8	97	88-117	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 17I  
**Lab Code:** J0903685-010  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 17I  
**Lab Code:** J0903685-010  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	97	88-117	Acceptable

**Comments:** \_\_\_\_\_

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 17D  
 Lab Code: J0903685-011  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 17D  
**Lab Code:** J0903685-011  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	96	71-122	Acceptable
4-Bromofluorobenzene	97	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	96	88-117	Acceptable

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 3I  
**Lab Code:** J0903685-012  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 31  
**Lab Code:** J0903685-012  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 3S  
 Lab Code: J0903685-013  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 3S  
**Lab Code:** J0903685-013  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	90	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 31D  
**Lab Code:** J0903685-014  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 31D  
**Lab Code:** J0903685-014  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	90	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	91	82-116	Acceptable
Toluene-d8	96	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 34D  
**Lab Code:** J0903685-015  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:**



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 34D  
**Lab Code:** J0903685-015  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	87	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	97	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 34I  
**Lab Code:** J0903685-016  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 34I  
**Lab Code:** J0903685-016  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	90	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	95	88-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB 34S  
 Lab Code: J0903685-017  
 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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB 34S  
**Lab Code:** J0903685-017  
**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	07/31/09	07/31/09	
Chlorobenzene	ND U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	96	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 1  
**Lab Code:** J0903685-018  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 1  
**Lab Code:** J0903685-018  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	90	71-122	Acceptable
4-Bromofluorobenzene	98	75-120	Acceptable
Dibromofluoromethane	95	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 2  
**Lab Code:** J0903685-019  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:**



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank 2  
**Lab Code:** J0903685-019  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	92	88-117	Acceptable

**Comments:** \_\_\_\_\_

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

Service Request: J0903685  
 Date Collected: NA  
 Date Received: NA

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: JWG0902480-4  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902480-4  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	96	75-120	Acceptable
Dibromofluoromethane	95	82-116	Acceptable
Toluene-d8	95	88-117	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903685  
 Date Collected: 07/28/2009  
 Date Received: 07/28/2009

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

Sample Name: MWB 20S  
 Lab Code: J0903685-001  
 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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

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  
**Project:** Trail Ridge  
**Sample Matrix:** Water

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 7S  
**Lab Code:** J0903685-002  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	113	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 7D  
**Lab Code:** J0903685-003  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** DUP03  
**Lab Code:** J0903685-004  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

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  
**Sample Matrix:** Water

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 71  
**Lab Code:** J0903685-005  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 19I  
**Lab Code:** J0903685-006  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

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  
**Sample Matrix:** Water

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 19D  
**Lab Code:** J0903685-007  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	113	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 19S  
**Lab Code:** J0903685-008  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 17S  
**Lab Code:** J0903685-009  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	120	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 17I  
**Lab Code:** J0903685-010  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	116	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 17D  
**Lab Code:** J0903685-011  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	117	77-150	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 3I  
**Lab Code:** J0903685-012  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 3S  
**Lab Code:** J0903685-013  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	114	77-150	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 31D  
**Lab Code:** J0903685-014  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

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  
**Sample Matrix:** Water

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 34D  
**Lab Code:** J0903685-015  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	116	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 341  
**Lab Code:** J0903685-016  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	116	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** 07/28/2009  
**Date Received:** 07/28/2009

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

**Sample Name:** MWB 34S  
**Lab Code:** J0903685-017  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	116	77-150	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903685  
**Date Collected:** NA  
**Date Received:** NA

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

**Sample Name:** Method Blank  
**Lab Code:** JWG0902510-3  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.020	0.0057	0.2	1	08/04/09	08/05/09	

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  
**Sample Matrix:** Water  
**Sample Name:** MWB 20S  
**Lab Code:** J0903685-001

**Service Request:** J0903685  
**Date Collected:** 7/28/09 0820  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 19:05
Arsenic, Total	6020	0.72	µg/L	0.50	0.20	1	7/31/09	8/10/09 19:05
Barium, Total	6020	15.7	µg/L	2.0	0.5	1	7/31/09	8/10/09 19:05
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:05
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 19:05
Chromium, Total	6020	1.0 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:05
Cobalt, Total	6020	0.2 I	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:05
Copper, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:05
Iron, Total	6010B	198	µg/L	50	4	1	7/31/09	8/3/09 15:04
Lead, Total	6020	0.2 I	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:05
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:49
Nickel, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:05
Selenium, Total	6020	1.2 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:05
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 19:05
Sodium, Total	6010B	3.67	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:03
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:05
Vanadium, Total	6020	2.8 I	µg/L	5.0	1.2	1	7/31/09	8/10/09 19:05
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 19:05

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 7S  
**Lab Code:** J0903685-002

**Service Request:** J0903685  
**Date Collected:** 7/28/09 0850  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 19:10
Arsenic, Total	6020	<b>0.67</b>	µg/L	0.50	0.20	1	7/31/09	8/10/09 19:10
Barium, Total	6020	<b>6.7</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 19:10
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:10
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 19:10
Chromium, Total	6020	<b>1.6 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:10
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:10
Copper, Total	6020	<b>0.7 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:10
Iron, Total	6010B	<b>74</b>	µg/L	50	4	1	7/31/09	8/3/09 15:32
Lead, Total	6020	<b>0.4 I</b>	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:10
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:51
Nickel, Total	6020	<b>0.7 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:10
Selenium, Total	6020	<b>1.5 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:10
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 19:10
Sodium, Total	6010B	<b>9.26</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:31
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:10
Vanadium, Total	6020	<b>2.6 I</b>	µg/L	5.0	1.2	1	7/31/09	8/10/09 19:10
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 19:10

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 7D  
**Lab Code:** J0903685-003

**Service Request:** J0903685  
**Date Collected:** 7/28/09 09:18  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 19:34
Arsenic, Total	6020	0.32 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 19:34
Barium, Total	6020	77.3	µg/L	2.0	0.5	1	7/31/09	8/10/09 19:34
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:34
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 19:34
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:34
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:34
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:34
Iron, Total	6010B	265	µg/L	50	4	1	7/31/09	8/3/09 15:37
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:34
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:36
Nickel, Total	6020	0.6 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:34
Selenium, Total	6020	1.2 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:34
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 19:34
Sodium, Total	6010B	4.61	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:36
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:34
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 19:34
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 19:34

**Comments:**

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Water  
 Sample Name: DUP03  
 Lab Code: J0903685-004

Service Request: J0903685  
 Date Collected: 7/28/09 0918  
 Date Received: 7/28/09

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	0.4	1	7/31/09	8/10/09 19:53
Arsenic, Total	6020	0.25 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 19:53
Barium, Total	6020	79.9	µg/L	2.0	0.5	1	7/31/09	8/10/09 19:53
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:53
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 19:53
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:53
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:53
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:53
Iron, Total	6010B	274	µg/L	50	4	1	7/31/09	8/3/09 15:41
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:53
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/5/09	8/5/09 16:52
Nickel, Total	6020	0.8 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:53
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:53
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 19:53
Sodium, Total	6010B	4.75	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:40
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:53
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 19:53
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 19:53

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 71  
**Lab Code:** J0903685-005

**Service Request:** J0903685  
**Date Collected:** 7/28/09 0945  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 19:58
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/31/09	8/10/09 19:58
Barium, Total	6020	<b>50.1</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 19:58
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:58
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 19:58
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:58
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:58
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:58
Iron, Total	6010B	<b>327</b>	µg/L	50	4	1	7/31/09	8/3/09 15:45
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:58
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:53
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 19:58
Selenium, Total	6020	<b>1</b> I	µg/L	2.0	0.8	1	7/31/09	8/10/09 19:58
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 19:58
Sodium, Total	6010B	<b>3.42</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:44
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 19:58
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 19:58
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 19:58

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 191  
**Lab Code:** J0903685-006

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1016  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 20:02
Arsenic, Total	6020	0.47 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:02
Barium, Total	6020	70.1	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:02
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:02
Cadmium, Total	6020	0.60	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:02
Chromium, Total	6020	2.2	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:02
Cobalt, Total	6020	1.9	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:02
Copper, Total	6020	3.6	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:02
Iron, Total	6010B	668	µg/L	50	4	1	7/31/09	8/3/09 15:50
Lead, Total	6020	0.9 I	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:02
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:55
Nickel, Total	6020	2.3	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:02
Selenium, Total	6020	1.2 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:02
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:02
Sodium, Total	6010B	3.58	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:49
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:02
Vanadium, Total	6020	2.5 I	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:02
Zinc, Total	6020	13	µg/L	10	4	1	7/31/09	8/10/09 20:02

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 19D  
**Lab Code:** J0903685-007

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1045  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 20:07
Arsenic, Total	6020	<b>0.53</b>	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:07
Barium, Total	6020	<b>95.4</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:07
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:07
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:07
Chromium, Total	6020	<b>1.1 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:07
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:07
Copper, Total	6020	<b>0.4 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:07
Iron, Total	6010B	<b>829</b>	µg/L	50	4	1	7/31/09	8/3/09 15:54
Lead, Total	6020	<b>0.3 I</b>	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:07
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 16:56
Nickel, Total	6020	<b>1.0 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:07
Selenium, Total	6020	<b>0.9 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:07
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:07
Sodium, Total	6010B	<b>4.58</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:53
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:07
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:07
Zinc, Total	6020	<b>7 I</b>	µg/L	10	4	1	7/31/09	8/10/09 20:07

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 19S  
**Lab Code:** J0903685-008

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1111  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 20:12
Arsenic, Total	6020	<b>0.59</b>	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:12
Barium, Total	6020	<b>45.9</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:12
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:12
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:12
Chromium, Total	6020	<b>1.3 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:12
Cobalt, Total	6020	<b>0.4 I</b>	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:12
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:12
Iron, Total	6010B	<b>1090</b>	µg/L	50	4	1	7/31/09	8/3/09 15:58
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:12
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:01
Nickel, Total	6020	<b>0.8 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:12
Selenium, Total	6020	<b>1.6 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:12
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:12
Sodium, Total	6010B	<b>12.1</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 15:57
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:12
Vanadium, Total	6020	<b>3.2 I</b>	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:12
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:12

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 17S  
**Lab Code:** J0903685-009

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1138  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 20:17
Arsenic, Total	6020	0.67	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:17
Barium, Total	6020	3.9	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:17
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:17
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:17
Chromium, Total	6020	1.6 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:17
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:17
Copper, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:17
Iron, Total	6010B	193	µg/L	50	4	1	7/31/09	8/3/09 16:03
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:17
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:02
Nickel, Total	6020	1.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:17
Selenium, Total	6020	1 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:17
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:17
Sodium, Total	6010B	4.42	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:02
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:17
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:17
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:17

**Comments:**

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Water  
 Sample Name: MWB 171  
 Lab Code: J0903685-010

Service Request: J0903685  
 Date Collected: 7/28/09 1233  
 Date Received: 7/28/09

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	0.4	1	7/31/09	8/10/09 20:21
Arsenic, Total	6020	0.23 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:21
Barium, Total	6020	33.5	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:21
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:21
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:21
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:21
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:21
Copper, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:21
Iron, Total	6010B	303	µg/L	50	4	1	7/31/09	8/3/09 16:07
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:21
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:04
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:21
Selenium, Total	6020	1.0 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:21
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:21
Sodium, Total	6010B	3.21	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:06
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:21
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:21
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:21

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Water  
 Sample Name: MWB 17D  
 Lab Code: J0903685-011

Service Request: J0903685  
 Date Collected: 7/28/09 1205  
 Date Received: 7/28/09

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	0.4	1	7/31/09	8/10/09 20:26
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:26
Barium, Total	6020	32.0	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:26
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:26
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:26
Chromium, Total	6020	1 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:26
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:26
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:26
Iron, Total	6010B	356	µg/L	50	4	1	7/31/09	8/3/09 16:11
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:26
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/5/09	8/5/09 17:05
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:26
Selenium, Total	6020	1 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:26
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:26
Sodium, Total	6010B	3.27	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:10
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:26
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:26
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:26

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 3I  
**Lab Code:** J0903685-012

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1307  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 20:50
Arsenic, Total	6020	0.44 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:50
Barium, Total	6020	23.2	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:50
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:50
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:50
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:50
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:50
Copper, Total	6020	0.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:50
Iron, Total	6010B	610	µg/L	50	4	1	7/31/09	8/3/09 16:25
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:50
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:07
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:50
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:50
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:50
Sodium, Total	6010B	3.53	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:24
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:50
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:50
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:50

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Water  
 Sample Name: MWB 3S  
 Lab Code: J0903685-013

Service Request: J0903685  
 Date Collected: 7/28/09 1332  
 Date Received: 7/28/09

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	0.4	1	7/31/09	8/10/09 20:55
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/31/09	8/10/09 20:55
Barium, Total	6020	<b>14.8</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 20:55
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:55
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 20:55
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:55
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:55
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:55
Iron, Total	6010B	<b>324</b>	µg/L	50	4	1	7/31/09	8/3/09 16:29
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:55
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:08
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 20:55
Selenium, Total	6020	<b>1.3 I</b>	µg/L	2.0	0.8	1	7/31/09	8/10/09 20:55
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 20:55
Sodium, Total	6010B	<b>2.85</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:28
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 20:55
Vanadium, Total	6020	<b>1.4 I</b>	µg/L	5.0	1.2	1	7/31/09	8/10/09 20:55
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 20:55

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 31D  
**Lab Code:** J0903685-014

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1403  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 21:00
Arsenic, Total	6020	0.46 I	µg/L	0.50	0.20	1	7/31/09	8/10/09 21:00
Barium, Total	6020	87.7	µg/L	2.0	0.5	1	7/31/09	8/10/09 21:00
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:00
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 21:00
Chromium, Total	6020	0.9 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:00
Cobalt, Total	6020	0.2 I	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:00
Copper, Total	6020	0.6 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:00
Iron, Total	6010B	750	µg/L	50	4	1	7/31/09	8/3/09 16:33
Lead, Total	6020	0.5 I	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:00
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:10
Nickel, Total	6020	1.4 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:00
Selenium, Total	6020	1.6 I	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:00
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 21:00
Sodium, Total	6010B	6.24	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:32
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:00
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 21:00
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 21:00

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 34D  
**Lab Code:** J0903685-015

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1440  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 21:04
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/31/09	8/10/09 21:04
Barium, Total	6020	<b>103</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 21:04
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:04
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 21:04
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:04
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:04
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:04
Iron, Total	6010B	<b>434</b>	µg/L	50	4	1	7/31/09	8/3/09 16:37
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:04
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:11
Nickel, Total	6020	<b>1 I</b>	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:04
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:04
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 21:04
Sodium, Total	6010B	<b>6.18</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:37
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:04
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 21:04
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 21:04

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 34I  
**Lab Code:** J0903685-016

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1513  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 21:09
Arsenic, Total	6020	<b>0.36</b> I	µg/L	0.50	0.20	1	7/31/09	8/10/09 21:09
Barium, Total	6020	<b>48.0</b>	µg/L	2.0	0.5	1	7/31/09	8/10/09 21:09
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:09
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 21:09
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:09
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:09
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:09
Iron, Total	6010B	<b>405</b>	µg/L	50	4	1	7/31/09	8/3/09 16:42
Lead, Total	6020	<b>0.2</b> I	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:09
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:13
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:09
Selenium, Total	6020	<b>0.9</b> I	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:09
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 21:09
Sodium, Total	6010B	<b>3.44</b>	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:41
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:09
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 21:09
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 21:09

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB 34S  
**Lab Code:** J0903685-017

**Service Request:** J0903685  
**Date Collected:** 7/28/09 1535  
**Date Received:** 7/28/09

**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	0.4	1	7/31/09	8/10/09 21:14
Arsenic, Total	6020	1.57	µg/L	0.50	0.20	1	7/31/09	8/10/09 21:14
Barium, Total	6020	3.1	µg/L	2.0	0.5	1	7/31/09	8/10/09 21:14
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:14
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 21:14
Chromium, Total	6020	2.6	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:14
Cobalt, Total	6020	1.1	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:14
Copper, Total	6020	1.7 I	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:14
Iron, Total	6010B	146	µg/L	50	4	1	7/31/09	8/3/09 16:46
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:14
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 5/09	8/5/09 17:14
Nickel, Total	6020	6.7	µg/L	2.0	0.3	1	7/31/09	8/10/09 21:14
Selenium, Total	6020	2.9	µg/L	2.0	0.8	1	7/31/09	8/10/09 21:14
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 21:14
Sodium, Total	6010B	52.5	mg/L	0.50	0.02	1	7/31/09	8/3/09 16:45
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 21:14
Vanadium, Total	6020	6.1	µg/L	5.0	1.2	1	7/31/09	8/10/09 21:14
Zinc, Total	6020	7 I	µg/L	10	4	1	7/31/09	8/10/09 21:14

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J0903685-MB

**Service Request:** J0903685  
**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	0.4	1	7/31/09	8/10/09 18:56
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	7/31/09	8/10/09 18:56
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	7/31/09	8/10/09 18:56
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 18:56
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	7/31/09	8/10/09 18:56
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 18:56
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 18:56
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 18:56
Iron, Total	6010B	9 I	µg/L	50	4	1	7/31/09	8/3/09 14:56
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 18:56
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/5/09	8/5/09 15:46
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	7/31/09	8/10/09 18:56
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/10/09 18:56
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	7/31/09	8/10/09 18:56
Sodium, Total	6010B	ND U	mg/L	0.50	0.02	1	7/31/09	8/3/09 14:55
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/10/09 18:56
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/10/09 18:56
Zinc, Total	6020	ND U	µg/L	10	4	1	7/31/09	8/10/09 18:56

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 20S  
**Lab Code :** J0903685-001  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.34	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	7.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 08:19	110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 16:01	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 08:16	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 08:19	3.87	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	65	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 08:19	26.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 08:16	5.0	



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 7S  
**Lab Code :** J0903685-002  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.31	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	15	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 08:49	188	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 16:46	0.17	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 08:49	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 08:49	4.80	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	110	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 08:49	27.1	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 08:49	9.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 7D  
**Lab Code :** J0903685-003  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	4.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 09:17	415	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 17:01	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 09:17	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 09:17	6.96	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	190	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 09:17	23.5	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 09:17	0.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** DUP03  
**Lab Code :** J0903685-004  
**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	0.025	1	08/09/09 16:17	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	4.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 09:17	415	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 18:01	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 09:17	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 09:17	6.96	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	185	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 09:17	23.5	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 09:17	0.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 71  
**Lab Code :** J0903685-005  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 09:44	47	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 18:16	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 09:44	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 09:44	4.73	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	29	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 09:44	24.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 09:44	0.1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 191  
**Lab Code :** J0903685-006  
**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	0.025	1	08/09/09 16:17	0.12	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	6.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 10:15	42	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 18:31	0.14	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 10:15	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 10:15	4.57	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	27	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 10:15	24.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 10:15	18.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 19D  
**Lab Code :** J0903685-007  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.12	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	4.5	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 10:44	435	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 18:45	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 10:44	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 10:44	6.76	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	186	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 10:41	25.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 10:44	0.8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 19S  
**Lab Code :** J0903685-008  
**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	0.025	1	08/09/09 16:17	0.45	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	20	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 11:10	194	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 19:00	0.14	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 11:10	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 11:10	4.58	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	110	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 11:10	26.6	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 11:10	2.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 17S  
**Lab Code :** J0903685-009  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	7.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 11:37	99	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 19:15	0.14	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 11:37	2.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 11:37	4.86	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	56	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 11:37	26.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 11:37	5.4	



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 17I  
**Lab Code :** J0903685-010  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	5.1	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 12:32	35	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 19:30	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 12:32	0.3	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 12:32	4.39	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	21	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 12:32	25.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 12:32	0.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 17D  
**Lab Code :** J0903685-011  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.034	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	6.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 12:04	64	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 19:45	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 12:04	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 12:04	4.98	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	44	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 12:04	26.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 12:04	0.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 31  
**Lab Code :** J0903685-012  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 13:06	45	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 21:15	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 13:06	0.5	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 13:06	4.23	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	18	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 13:06	22.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 13:06	0.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 3S  
**Lab Code :** J0903685-013  
**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	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	6.9	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 13:31	60	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 21:30	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 13:31	1.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 13:31	4.05	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	17	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 13:31	23.4	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 13:31	0.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 31D  
**Lab Code :** J0903685-014  
**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	0.025	1	08/09/09 16:17	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	5.3	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 14:02	440	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 21:45	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 14:02	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 14:02	6.47	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	200	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 14:02	25.3	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 14:02	0.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

Sample Name : MWB 34D  
 Lab Code : J0903685-015  
 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	0.025	1	08/09/09 16:17	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	4.8	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 14:39	517	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 22:00	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 14:39	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 14:39	6.65	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	230	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 14:39	26.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 14:39	0.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 341  
**Lab Code :** J0903685-016  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	0.045	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 15:12	50	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 22:15	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 15:12	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 15:12	4.80	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	35	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 15:12	25.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 15:12	1.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09

Inorganic Parameters

**Sample Name :** MWB 34S  
**Lab Code :** J0903685-017  
**Test Notes :**

Basis : NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	1.5	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	30	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/28/09 15:34	1194	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 22:30	0.15	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/28/09 15:34	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/28/09 15:34	5.75	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	660	
Temperature (Field)	DEG C	170.1	-	-	1	07/28/09 15:34	26.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/28/09 15:34	0.1	



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request : J0903685  
Date Collected : NA  
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank  
Lab Code : J0903685-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	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/29/09 15:16	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/29/09 15:16	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 14:45	U	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903685

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

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
MWB 20S	J0903685-001	74	103	90	105
MWB 7S	J0903685-002	92	94	96	98
MWB 7D	J0903685-003	95	94	97	94
DUP03	J0903685-004	90	95	92	94
MWB 7I	J0903685-005	92	92	91	93
MWB 19I	J0903685-006	93	96	97	96
MWB 19D	J0903685-007	93	95	98	98
MWB 19S	J0903685-008	89	94	91	99
MWB 17S	J0903685-009	88	93	95	97
MWB 17I	J0903685-010	94	95	96	97
MWB 17D	J0903685-011	96	97	99	96
MWB 3I	J0903685-012	92	95	98	99
MWB 3S	J0903685-013	90	93	97	98
MWB 31D	J0903685-014	90	92	91	96
MWB 34D	J0903685-015	87	93	93	97
MWB 34I	J0903685-016	90	94	93	95
MWB 34S	J0903685-017	92	96	99	98
Trip Blank 1	J0903685-018	90	98	95	99
Trip Blank 2	J0903685-019	91	93	97	92
Method Blank	JWG0902480-4	88	96	95	95
MWB 20SMS	JWG0902480-1	90	97	92	98
MWB 20SDMS	JWG0902480-2	88	96	90	97
Lab Control Sample	JWG0902480-3	83	99	91	96

**Surrogate Recovery Control Limits (%)**

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

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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  
 Sample Matrix: Water

Service Request: J0903685  
 Date Extracted: 07/31/2009  
 Date Analyzed: 07/31/2009

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

Sample Name: MWB 20S  
 Lab Code: J0903685-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902480

Analyte Name	Sample Result	MWB 20SMS JWG0902480-1 Matrix Spike			MWB 20SDMS JWG0902480-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	18.2	20.0	91	18.6	20.0	93	73-139	2	30
Vinyl Chloride	ND	19.4	20.0	97	20.5	20.0	103	78-141	6	30
Bromomethane	ND	13.1	20.0	66 *	15.8	20.0	79	78-129	18	30
Chloroethane	ND	22.0	20.0	110	23.9	20.0	120	76-129	8	30
Trichlorofluoromethane	ND	22.0	20.0	110	22.6	20.0	113	81-133	3	30
1,1-Dichloroethene	ND	20.4	20.0	102	22.5	20.0	113	79-133	10	30
Acetone	ND	91.2	100	91	96.4	100	96	56-139	6	30
Iodomethane (Methyl Iodide)	ND	98.5	100	99	109	100	109	74-134	10	30
Carbon Disulfide	ND	105	100	105	108	100	108	71-146	3	30
Methylene Chloride	ND	19.2	20.0	96	20.6	20.0	103	75-123	7	30
trans-1,2-Dichloroethene	ND	20.2	20.0	101	20.1	20.0	100	76-125	1	30
Acrylonitrile	ND	94.4	100	94	101	100	101	68-131	6	30
1,1-Dichloroethane	ND	19.3	20.0	97	20.6	20.0	103	78-125	7	30
Vinyl Acetate	ND	70.1	100	70	75.5	100	76	43-163	7	30
cis-1,2-Dichloroethene	ND	19.1	20.0	96	19.3	20.0	97	75-127	1	30
2-Butanone (MEK)	ND	88.8	100	89	96.8	100	97	63-134	9	30
Bromochloromethane	ND	19.2	20.0	96	20.7	20.0	103	80-124	8	30
Chloroform	ND	19.6	20.0	98	19.6	20.0	98	81-124	0	30
1,1,1-Trichloroethane (TCA)	ND	20.1	20.0	101	21.1	20.0	105	76-130	5	30
Carbon Tetrachloride	ND	20.4	20.0	102	21.5	20.0	107	76-131	5	30
Benzene	ND	18.5	20.0	92	20.3	20.0	101	78-123	9	30
1,2-Dichloroethane (EDC)	ND	19.5	20.0	97	20.6	20.0	103	74-126	6	30
Trichloroethene (TCE)	ND	20.2	20.0	101	20.5	20.0	102	77-128	1	30
1,2-Dichloropropane	ND	19.1	20.0	95	20.1	20.0	101	77-122	5	30
Dibromomethane	ND	18.3	20.0	91	20.0	20.0	100	78-124	9	30
Bromodichloromethane	ND	19.4	20.0	97	20.3	20.0	102	79-125	5	30
cis-1,3-Dichloropropene	ND	18.5	20.0	93	19.5	20.0	98	77-117	5	30
4-Methyl-2-pentanone (MIBK)	ND	90.7	100	91	102	100	102	65-138	12	30
Toluene	ND	19.6	20.0	98	20.5	20.0	102	86-119	5	30
trans-1,3-Dichloropropene	ND	18.1	20.0	90	19.5	20.0	97	75-120	8	30
1,1,2-Trichloroethane	ND	18.3	20.0	92	19.5	20.0	97	77-124	6	30
Tetrachloroethene (PCE)	ND	20.3	20.0	101	21.0	20.0	105	79-123	4	30
2-Hexanone	ND	87.9	100	88	98.2	100	98	63-142	11	30
Dibromochloromethane	ND	18.6	20.0	93	19.3	20.0	97	78-124	4	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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903685  
 Date Extracted: 07/31/2009  
 Date Analyzed: 07/31/2009

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

Sample Name: MWB 20S  
 Lab Code: J0903685-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902480

Analyte Name	Sample Result	MWB 20SMS JWG0902480-1 Matrix Spike			MWB 20SDMS JWG0902480-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	18.4	20.0	92	20.1	20.0	100	81-119	9	30
Chlorobenzene	ND	18.9	20.0	94	20.3	20.0	101	81-120	7	30
1,1,1,2-Tetrachloroethane	ND	18.7	20.0	94	19.6	20.0	98	82-118	4	30
Ethylbenzene	ND	19.2	20.0	96	21.2	20.0	106	87-122	10	30
m,p-Xylenes	ND	39.5	40.0	99	40.5	40.0	101	82-120	2	30
o-Xylene	ND	19.0	20.0	95	20.7	20.0	103	85-119	8	30
Styrene	ND	18.3	20.0	91	18.9	20.0	94	84-126	3	30
Bromoform	ND	17.2	20.0	86	19.7	20.0	98	70-129	13	30
1,1,2,2-Tetrachloroethane	ND	18.4	20.0	92	20.9	20.0	105	72-127	13	30
1,2,3-Trichloropropane	ND	18.1	20.0	90	20.8	20.0	104	76-123	14	30
1,4-Dichlorobenzene	ND	17.6	20.0	88	20.0	20.0	100	75-115	12	30
trans-1,4-Dichloro-2-butene	ND	15.3	20.0	77	18.1	20.0	91	22-135	17	30
1,2-Dichlorobenzene	ND	18.2	20.0	91	20.9	20.0	104	77-116	14	30
1,2-Dibromo-3-chloropropane (DBCP)	ND	14.6	20.0	73	22.1	20.0	111	54-120	41 *	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.

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903685  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/30/2009

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: JWG0902480

Lab Control Sample  
 JWG0902480-3  
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	18.4	20.0	92	67-135
Vinyl Chloride	19.8	20.0	99	78-132
Bromomethane	21.0	20.0	105	79-130
Chloroethane	24.0	20.0	120	74-126
Trichlorofluoromethane	20.8	20.0	104	74-134
1,1-Dichloroethene	20.8	20.0	104	78-130
Acetone	94.7	100	95	67-133
Iodomethane (Methyl Iodide)	124	100	124	68-134
Carbon Disulfide	99.5	100	99	76-138
Methylene Chloride	20.6	20.0	103	72-124
trans-1,2-Dichloroethene	20.4	20.0	102	77-124
Acrylonitrile	95.5	100	95	77-127
1,1-Dichloroethane	19.9	20.0	100	80-128
Vinyl Acetate	95.5	100	95	61-148
cis-1,2-Dichloroethene	19.7	20.0	99	80-126
2-Butanone (MEK)	90.9	100	91	73-127
Bromochloromethane	20.2	20.0	101	79-129
Chloroform	19.5	20.0	98	83-124
1,1,1-Trichloroethane (TCA)	20.3	20.0	102	79-124
Carbon Tetrachloride	20.5	20.0	103	81-125
Benzene	20.2	20.0	101	79-119
1,2-Dichloroethane (EDC)	20.3	20.0	102	80-124
Trichloroethene (TCE)	19.6	20.0	98	76-124
1,2-Dichloropropane	20.8	20.0	104	79-123
Dibromomethane	18.1	20.0	90	83-123
Bromodichloromethane	19.9	20.0	100	81-123
cis-1,3-Dichloropropene	20.2	20.0	101	86-123
4-Methyl-2-pentanone (MIBK)	89.6	100	90	72-136
Toluene	19.3	20.0	97	86-117
trans-1,3-Dichloropropene	20.3	20.0	102	83-124
1,1,2-Trichloroethane	18.7	20.0	93	86-114
Tetrachloroethene (PCE)	19.8	20.0	99	80-121
2-Hexanone	88.1	100	88	71-138
Dibromochloromethane	19.1	20.0	96	82-121
1,2-Dibromoethane (EDB)	19.0	20.0	95	88-117
Chlorobenzene	19.8	20.0	99	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  
 Sample Matrix: Water

Service Request: J0903685  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/30/2009

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: JWG0902480

Lab Control Sample  
 JWG0902480-3  
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.5	20.0	98	85-117
Ethylbenzene	19.8	20.0	99	90-118
m,p-Xylenes	41.0	40.0	103	86-121
o-Xylene	20.0	20.0	100	89-119
Styrene	19.9	20.0	99	89-122
Bromoform	17.6	20.0	88	68-129
1,1,2,2-Tetrachloroethane	17.7	20.0	89	83-120
1,2,3-Trichloropropane	17.8	20.0	89	83-123
1,4-Dichlorobenzene	19.7	20.0	99	83-113
trans-1,4-Dichloro-2-butene	18.0	20.0	90	53-143
1,2-Dichlorobenzene	19.6	20.0	98	84-115
1,2-Dibromo-3-chloropropane (DBCP)	15.6	20.0	78	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  
 Sample Matrix: Water

Service Request: J0903685

**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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MWB 20S	J0903685-001	111
MWB 7S	J0903685-002	113
MWB 7D	J0903685-003	114
DUP03	J0903685-004	115
MWB 7I	J0903685-005	114
MWB 19I	J0903685-006	110
MWB 19D	J0903685-007	113
MWB 19S	J0903685-008	118
MWB 17S	J0903685-009	120
MWB 17I	J0903685-010	116
MWB 17D	J0903685-011	117
MWB 3I	J0903685-012	114
MWB 3S	J0903685-013	114
MWB 31D	J0903685-014	115
MWB 34D	J0903685-015	116
MWB 34I	J0903685-016	116
MWB 34S	J0903685-017	116
Method Blank	JWG0902510-3	114
Lab Control Sample	JWG0902510-1	115
Duplicate Lab Control Sample	JWG0902510-2	112

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**Surrogate Recovery Control Limits (%)**

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

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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  
 Sample Matrix: Water

Service Request: J0903685  
 Date Extracted: 08/04/2009  
 Date Analyzed: 08/05/2009

Lab Control Spike/Duplicate 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: JWG0902510

Analyte Name	Lab Control Sample JWG0902510-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902510-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.317	0.250	127	0.299	0.250	120	70-130	6	20
1,2-Dibromo-3-chloropropane (DBCP)	0.321	0.250	128	0.301	0.250	120	70-130	6	20

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  
Sample Matrix: Water

Service Request: J0903685  
Date Collected: 7/28/09  
Date Received: 7/28/09  
Date Analyzed: 8/3/09

Matrix Spike Summary  
Inorganic Parameters

Sample Name: MWB 20S  
Lab Code: J0903685-001

Units: µg/L  
Basis: NA

Analytical Method: 6010B  
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903685-MS1			Duplicate Matrix Spike J0903685-DMS1			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Iron, Total	198	2040	2000	92	2090	2000	95	75 - 125	3	20

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903685  
Date Collected: 7/28/09  
Date Received: 7/28/09  
Date Analyzed: 8/3/09

Matrix Spike Summary  
Inorganic Parameters

Sample Name: MWB 20S  
Lab Code: J0903685-001

Units: mg/L  
Basis: NA

Analytical Method: 6010B  
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903685-MS1			Duplicate Matrix Spike J0903685-DMS1			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Sodium, Total	3.67	13.6	10.0	99	13.7	10.0	101	75 - 125	1	20

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903685  
**Date Collected:** 7/28/09  
**Date Received:** 7/28/09  
**Date Analyzed:** 8/10/09

**Matrix Spike Summary  
 Inorganic Parameters**

**Sample Name:** MWB 7S  
**Lab Code:** J0903685-002

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 6020  
**Prep Method:** EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0903685-MS2			Duplicate Matrix Spike J0903685-DMS2			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Antimony, Total	ND	50.5	50.0	101	49.6	50.0	99	75 - 125	2	20
Arsenic, Total	0.67	47.7	50.0	94	47.7	50.0	94	75 - 125	0	20
Barium, Total	6.7	55.2	50.0	97	54.6	50.0	96	75 - 125	1	20
Beryllium, Total	ND	50.7	50.0	101	49.7	50.0	99	75 - 125	2	20
Cadmium, Total	ND	48.3	50.0	97	47.5	50.0	95	75 - 125	2	20
Chromium, Total	1.6	49.9	50.0	97	50.4	50.0	98	75 - 125	1	20
Cobalt, Total	ND	46.0	50.0	92	47.1	50.0	94	75 - 125	2	20
Copper, Total	0.7	47.2	50.0	93	47.9	50.0	94	75 - 125	2	20
Lead, Total	0.4	49.6	50.0	99	48.9	50.0	97	75 - 125	2	20
Nickel, Total	0.7	48.9	50.0	96	49.5	50.0	98	75 - 125	1	20
Selenium, Total	1.5	47.6	50.0	92	48.0	50.0	93	75 - 125	1	20
Silver, Total	ND	45.4	50.0	91	45.9	50.0	92	75 - 125	1	20
Thallium, Total	ND	48.8	50.0	98	48.6	50.0	97	75 - 125	0	20
Vanadium, Total	2.6	52.1	50.0	99	51.7	50.0	98	75 - 125	1	20
Zinc, Total	ND	93.2	100	93	94.1	100	94	75 - 125	1	20

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903685  
Date Collected: 7/28/09  
Date Received: 7/28/09  
Date Analyzed: 8/5/09

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

Sample Name: MWB 7D  
Lab Code: J0903685-003

Units: µg/L  
Basis: NA

Analytical Method: 7470A  
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0903685-MS3			Duplicate Matrix Spike J0903685-DMS3			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Mercury, Total	ND	5.21	5.00	104	4.79	5.00	96	75 - 125	8	20

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903685  
**Date Collected:** 7/28/09  
**Date Received:** 7/28/09  
**Date Analyzed:** 8/10/09

**Matrix Spike Summary  
 Inorganic Parameters**

**Sample Name:** MWB 17D  
**Lab Code:** J0903685-011

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 6020  
**Prep Method:** EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0903685-MS4			Duplicate Matrix Spike J0903685-DMS4			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Antimony, Total	ND	50.4	50.0	101	51.2	50.0	102	75 - 125	2	20
Arsenic, Total	ND	46.3	50.0	93	46.0	50.0	92	75 - 125	1	20
Barium, Total	32.0	80.3	50.0	97	81.0	50.0	98	75 - 125	1	20
Beryllium, Total	ND	46.7	50.0	93	47.4	50.0	95	75 - 125	1	20
Cadmium, Total	ND	48.1	50.0	96	48.7	50.0	97	75 - 125	1	20
Chromium, Total	1	47.6	50.0	93	48.6	50.0	95	75 - 125	2	20
Cobalt, Total	ND	45.6	50.0	91	46.0	50.0	92	75 - 125	1	20
Copper, Total	ND	46.5	50.0	93	47.0	50.0	94	75 - 125	1	20
Lead, Total	ND	48.9	50.0	98	49.0	50.0	98	75 - 125	0	20
Nickel, Total	ND	46.9	50.0	94	46.8	50.0	94	75 - 125	0	20
Selenium, Total	1	46.2	50.0	90	47.0	50.0	92	75 - 125	2	20
Silver, Total	ND	45.9	50.0	92	45.1	50.0	90	75 - 125	2	20
Thallium, Total	ND	48.0	50.0	96	48.5	50.0	97	75 - 125	1	20
Vanadium, Total	ND	47.7	50.0	95	48.3	50.0	97	75 - 125	1	20
Zinc, Total	ND	94.7	100	95	91.3	100	91	75 - 125	4	20

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903685  
**Date Analyzed:** 8/ 3/09 -  
 8/10/09

**Lab Control Sample Summary  
 Inorganic Parameters**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903685-LCS2			% Rec Limits
		Result	Expected	% Rec	
Antimony, Total	6020	52.0	50.0	104	80 - 120
Arsenic, Total	6020	48.9	50.0	98	80 - 120
Barium, Total	6020	50.1	50.0	100	80 - 120
Beryllium, Total	6020	49.9	50.0	100	80 - 120
Cadmium, Total	6020	48.8	50.0	98	80 - 120
Chromium, Total	6020	51.0	50.0	102	80 - 120
Cobalt, Total	6020	48.5	50.0	97	80 - 120
Copper, Total	6020	49.1	50.0	98	80 - 120
Iron, Total	6010B	1900	2000	95	80 - 120
Lead, Total	6020	50.1	50.0	100	80 - 120
Nickel, Total	6020	50.7	50.0	101	80 - 120
Selenium, Total	6020	49.5	50.0	99	80 - 120
Silver, Total	6020	47.8	50.0	96	80 - 120
Thallium, Total	6020	49.9	50.0	100	80 - 120
Vanadium, Total	6020	50.3	50.0	101	80 - 120
Zinc, Total	6020	97.1	100	97	80 - 120

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903685  
Date Analyzed: 8/3/09

Lab Control Sample Summary  
Inorganic Parameters

Units: mg/L  
Basis: NA

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

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903685  
**Date Analyzed:** 8/ 5/09

**Lab Control Sample Summary  
 Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)**

Analyte Name	Method	Lab Control Sample J0903685-LCS1			Duplicate Lab Control Sample J0903685-DLCS1			Units: µg/L Basis: NA		RPD Limit
		Result	Expected	% Rec	Result	Expected	% Rec	% Rec Limits	RPD	
Mercury, Total	7470A	4.85	5.00	97	4.90	5.00	98	80 - 120	1	20

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/29-08/09/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB 20S  
**Lab Code :** J0903685-001DUP  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
					Sample Result	Average		
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.34	0.34	0.34	<1	
Chloride	mg/L (ppm)	300.0	0.2	7.3	7.4	7.35	1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.15	0.15	0.15	<1	i
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	65	61	63	6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/29-08/09/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MWB 20S  
**Lab Code :** J0903685-001MS  
**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	5.00	0.34	5.55	104	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	7.3	110	103	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	0.15	5.46	106	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/29-08/09/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB 17D  
**Lab Code :** J0903685-011DUP  
**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	0.034	0.032	0.033	6	i
Chloride	mg/L (ppm)	300.0	0.2	6.3	6.4	6.35	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	44	41	42.5	7	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903685  
**Date Collected :** 07/28/09  
**Date Received :** 07/28/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/29-08/09/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MWB 17D  
**Lab Code :** J0903685-011MS  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	0.034	5.32	106	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	6.3	108	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.37	107	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903685  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 07/29-08/09/09

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** J0903685-LCS  
**Test Notes :**

**Basis :** NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.20	104	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.17	103	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.11	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	294	98	85-115	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: ProTech Service Request # 50903685  
 Project: Trail Ridge  
 Cooler received on 7.28.09 and opened on 7.29.09 GB  
 COURIER CAS UPS FEDEX DHL CLIENT Tracking #

- |    |   |               |                                  |            |
|----|---|---------------|----------------------------------|------------|
| 1  | Were custody seals on outside of cooler?  | Yes           | <u>No</u>                        | N/A        |
| 2  | Were seals intact, signed and dated?  | Yes           | No                               | <u>N/A</u> |
| 3  | Were custody papers properly filled out?  | <u>Yes</u>    | No                               | N/A        |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)                             | <u>4.2° C</u> | <u>3.8° C</u>                    |            |
| 5  | Correct Temperature?  | <u>Yes</u>    | No                               | N/A        |
| 6  | Were Ice or Ice Packs present   | <u>Yes</u>    | No                               | N/A        |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?                                   | <u>Yes</u>    | No                               | N/A        |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?                             | <u>Yes</u>    | No                               | N/A        |
| 9  | Did all bottle labels and tags agree with custody papers?                                       | <u>Yes</u>    | No                               | N/A        |
| 10 | Were the correct bottles used for the tests indicated?  | <u>Yes</u>    | No                               | N/A        |
| 11 | Were all of the preserved bottles received with the appropriate preservative?                   | Yes           | <u>No</u>                        | N/A        |
|    | HNO3 pH<2 <u>H2SO4 pH&lt;2</u> ZnAc2/NaOH pH>9 NaOH pH>12<br>Preservative additions noted below |               | <u>HCl pH&lt;2</u><br><u>VOC</u> |            |
| 12 | Were all samples received within analysis holding times?  | <u>Yes</u>    | No                               | N/A        |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below                       | <u>Yes</u>    | No                               | N/A        |
| 14 | Where did the bottles originate?  | <u>CAS</u>    | Client                           |            |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials
<u>MWB345</u>	<u>HNO3</u>	<u>5M016B</u>	<u>0.5</u>	<u>GB 7.29.09</u> <u>0850</u>

Additional comments and/or explanation of all discrepancies noted above: MWB345 metals bottle was preserved to <2.

Trip Blanks included

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date:

SR #: J 0903685

Date:

7.29.09 Initials:

EB

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

Container	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	
40ml	40ml	40ml	40ml	125ml	125ml	125ml	125ml	250ml	250ml	250ml	250ml	250ml	250ml	250ml	250ml	500ml	500ml	500ml	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100ml	100ml	Misc.	
G	G	G	G	P	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	P	P	Misc.	
	HCl	Sodium Thiosulfate	H2SO4	HCl	H2SO4	HNO3	H2SO4	HNO3	H2SO4	HNO3	ZnAcetate NaOH	NaOH	HNO3	HNO3	HNO3	H2SO4	HNO3	HNO3	HNO3	HCl	HCl	H2SO4						Sodium Thiosulfate			
Req. pH	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Sample #																															
-001																															
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-040																															



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 2

SR # **J0903685**  
CAS Contact

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Preservative)		REMARKS/ ALTERNATE DESCRIPTION
Client Sample ID	LAB ID	SAMPLING DATE	TIME	MATRIX	NUMBER OF CONTAINERS	
MWB 205		7/28	0820	GW	9	
MWB 175		7/28	0850	GW	9	
MWB 7D		7/28	0918	GW	9	
DUPOB		7/28	0918	GW	9	
MWB 11		7/28	0945	GW	9	
MWB 19I		7/28	1016	GW	9	
MWB 19D		7/28	1045	GW	9	
MWB 19S		7/28	1111	GW	9	
MWB 17S		7/28	1138	GW	9	
MWB 17I		7/28	1233	GW	9	

PRESERVATIVE	NUMBERS	ANALYSIS REQUESTED
	METALS	
	NH3	
	TDS, CL, NO3	
	NO2	
	NO	
	NO3	

CLIENT SIGNATURE	SAMPLER'S PRINTED NAME
<i>Ben Ranganathan</i>	Ben Ranganathan

PHONE #	FAX #
904 598 8553	

COMPANY ADDRESS	PROJECT NUMBER
200 W FORSYTH ST STE 800	
JACKSONVILLE FL 32202	

PROJECT MANAGER	EMAIL ADDRESS
TRAIL RIDGE	
PRAND STONE	

CLIENT INSTRUCTIONS/COMMENTS	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
See QAPP <input type="checkbox"/>	<input type="checkbox"/> RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____	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. Specialized Forms / Custom Report _____ Edata <input type="checkbox"/> Yes <input type="checkbox"/> No	PO# _____ BILL TO: _____

SAMPLE RECEIPT: CONDITION/COOLER TEMP.	CUSTODY SEALS: Y N
13	

RECEIVED BY	RECEIVED BY
<i>Ben Ranganathan</i>	<i>Robert Nicholas</i>
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time
07/28/09 1615	07/28/09 1615

RELINQUISHED BY	RELINQUISHED BY
<i>Ben Ranganathan</i>	<i>Ben Ranganathan</i>
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time
07/28/09 1615	07/28/09 1615





# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 2 OF 2

SR #

J0903685

CAS Contact

Project Name <b>TRAIL RIDGE</b>		Project Number		ANALYSIS REQUESTED (Include Method Number)	
Project Manager <b>BRADSTONE</b>		Email Address		PRESERVATIVE	
Company/Address <b>ZOO W FOLSYTH ST, STE 800 JACKSONVILLE FL 32202</b>		FAX#		NUMBER OF CONTAINERS	
Phone # <b>904 598 8553</b>		Sampler's Printed Name <b>BEN RUMBLEMAN</b>		METALS	
Sampler's Signature <i>Ben Rumbleman</i>		LAB ID		NIT3 DS/CL/NO3 LOC BO11	
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
MWB 17D		7/28	1205	GW	
MWB 31		7/28	1307	GW	
MWB 35		7/28	1332	GW	
MWB 31D		7/28	1403	GW	
MWB 31D		7/28	1440	GW	
MWB 34I		7/28	1513	GW	
MWB 34S		7/28	1535	GW	
SPECIAL INSTRUCTIONS/COMMENTS					
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD		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. Specialized Forms / Custom Report		INVOICE INFORMATION	
REQUESTED FAX DATE		REQUESTED REPORT DATE		PO#	
RECEIVED BY		RECEIVED BY		BILL TO:	
RELINQUISHED BY		RELINQUISHED BY		Edata Yes No	
Signature		Signature		RECEIVED BY	
Printed Name		Printed Name		Signature	
Firm		Firm		Printed Name	
Date/Time		Date/Time		Firm	
Date/Time		Date/Time		Date/Time	

# **Appendix A**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17199  
 WACS Testsite Name: MWB 20S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 8:20:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 6:07:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 1:44:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 6:07:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 1:44:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 6:07:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 6:07:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 6:07:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 6:07:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 6:07:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 6:07:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 6:07:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.34	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.72	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 7:05:00PM	15.7	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 6:07:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 6:07:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	7.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 7:05:00PM	1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

Page 1 of 2

Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17199  
 WACS Testsite Name: MWB 20S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/28/2009 8:20:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 8:16:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 8:16:00AM	113.33		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 6:07:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:04:00PM	198	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.2	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 6:07:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:49:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 4:01:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 6:07:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 8:19:00AM	3.87		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 7:05:00PM	1.2	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:03:00PM	3.67	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 8:19:00AM	110		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 6:07:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 8:19:00AM	26.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 7:05:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 6:07:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	65	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:07:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 6:07:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 6:07:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 8:16:00AM	5		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 7:05:00PM	2.8	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 6:07:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 6:07:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 7:05:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17186  
 WACS Testsite Name: MWB 7S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 8:50:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 6:34:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 6:34:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 2:06:00AM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 6:34:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 2:06:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 6:34:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 6:34:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 6:34:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 6:34:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 6:34:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 6:34:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.31	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.67	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 7:10:00PM	6.7	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 6:34:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 6:34:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	15	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 7:10:00PM	1.6	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.7	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17186  
 WACS Testsite Name: MWB 7S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 8:50:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 8:49:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 8:49:00AM	115.27		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 6:34:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:32:00PM	74	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.4	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 6:34:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:51:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.7	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 4:46:00PM	0.17	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 6:34:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 8:49:00AM	4.8		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 7:10:00PM	1.5	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:31:00PM	9.26	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 8:49:00AM	188		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 6:34:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 8:49:00AM	27.1		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 7:10:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 6:34:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	110	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 6:34:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 6:34:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 6:34:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 8:49:00AM	9.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 7:10:00PM	2.6	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 6:34:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 6:34:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 7:10:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17184  
 WACS Testsite Name: MWB 7D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/28/2009 9:18:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 7:02:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:02:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 2:28:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:02:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 2:28:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:02:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:02:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:02:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:02:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:02:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:02:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:02:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:02:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:02:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.15	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.32	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 7:34:00PM	77.3	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 7:02:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:02:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:02:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:02:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:02:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	4.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:02:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:02:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:02:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:02:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17184  
 WACS Testsite Name: MWB 7D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 9:18:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:02:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 9:17:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:02:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:02:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 9:17:00AM	119.75		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:02:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:37:00PM	265	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:02:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:36:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:02:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.6	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 5:01:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:02:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 9:17:00AM	6.96		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 7:34:00PM	1.2	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:36:00PM	4.61	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 9:17:00AM	415		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:02:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 9:17:00AM	23.5		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:02:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 7:34:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:02:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	190	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:02:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:02:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:02:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:02:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 9:17:00AM	0.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 7:34:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:02:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:02:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 7:34:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge  
**PARAMETER MONITORING REPORT**  
 Rule 62-701  
**WACS Report Type:**  
 Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP03  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III)

Sample Date/Time: 7/28/2009 9:18:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 7:29:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:29:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:29:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 2:50:00AM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:29:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 2:50:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:29:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:29:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:29:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:29:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:29:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:29:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:29:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:29:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.15	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.25	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 7:53:00PM	79.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 7:29:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:29:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:29:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:29:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:29:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	4.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:29:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:29:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:29:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:29:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP03  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/28/2009 9:18:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:29:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 9:17:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:29:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:29:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 9:17:00AM	119.75		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:29:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:41:00PM	274	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:29:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:52:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:29:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.8	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 6:01:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:29:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 9:17:00AM	6.96		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:40:00PM	4.75	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 9:17:00AM	415		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:29:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 9:17:00AM	23.5		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:29:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 7:53:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:29:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	185	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:29:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:29:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:29:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:29:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 9:17:00AM	0.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 7:53:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:29:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:29:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 7:53:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17185  
 WACS Testsite Name: MWB 7I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 9:45:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 7:57:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 3:34:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 7:57:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 3:34:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 7:57:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:57:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 7:57:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 7:57:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 7:57:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 7:57:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 7:57:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 7:57:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 7:57:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 7:58:00PM	50.1	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 7:57:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 7:57:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 7:57:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 7:57:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 7:57:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	5.7	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 7:57:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 7:57:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:57:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:57:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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WACS Facility ID #: 33628  
 WACS Testsite ID #: 17185  
 WACS Testsite Name: MWB 7I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/28/2009 9:45:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 7:57:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 9:44:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 7:57:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 7:57:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 9:44:00AM	117.51		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 7:57:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:45:00PM	327	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 7:57:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:53:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 7:57:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 6:16:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 7:57:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 9:44:00AM	4.73		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 7:58:00PM	1	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:44:00PM	3.42	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 9:44:00AM	47		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 7:57:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 9:44:00AM	24.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 7:57:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 7:58:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 7:57:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	29	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 7:57:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 7:57:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 7:57:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 7:57:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 9:44:00AM	0.1		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 7:58:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 7:57:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 7:57:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 7:58:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17197  
 WACS Testsite Name: MWB 19I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 10:16:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 8:25:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 8:25:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 3:56:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 8:25:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 8:25:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 3:56:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:25:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 8:25:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:25:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 8:25:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 8:25:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 8:25:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 8:25:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 8:25:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.12	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.47	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 8:02:00PM	70.1	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 8:25:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 8:25:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.6	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 8:25:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 8:25:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 8:25:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	6.4	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 8:25:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 8:25:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:02:00PM	2.2	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:25:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:25:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:02:00PM	1.9	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:02:00PM	3.6	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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WACS Facility ID #: 33628  
 WACS Testsite ID #: 17197  
 WACS Testsite Name: MWB 19I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 10:16:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 8:25:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 10:15:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 8:25:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 8:25:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 10:15:00AM	120.32		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 8:25:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:50:00PM	668	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.9	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 8:25:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:55:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 8:25:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:02:00PM	2.3	0.3	UG/L	
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 6:31:00PM	0.14	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 8:25:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 10:15:00AM	4.57		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:02:00PM	1.2	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:49:00PM	3.58	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 10:15:00AM	42		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 8:25:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 10:15:00AM	24.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 8:25:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:02:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 8:25:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	27	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:25:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:25:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 8:25:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 8:25:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 10:15:00AM	18.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:02:00PM	2.5	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 8:25:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 8:25:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:02:00PM	13	4	UG/L	

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17196  
 WACS Testsite Name: MWB 19D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 10:45:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 8:52:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 8:52:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 8:52:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 4:18:00AM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 4:18:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 8:52:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:52:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 8:52:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 8:52:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 8:52:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 8:52:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 8:52:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 8:52:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 8:52:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.12	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.53	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 8:07:00PM	95.4	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 8:52:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 8:52:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 8:52:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 8:52:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 8:52:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	4.5	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 8:52:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 8:52:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:07:00PM	1.1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:52:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:52:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17196  
 WACS Testsite Name: MWB 19D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 10:45:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 8:52:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 10:44:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 8:52:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 8:52:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 10:44:00AM	126.63		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 8:52:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:54:00PM	829	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.3	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 8:52:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 4:56:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 8:52:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:07:00PM	1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 6:45:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 8:52:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 10:44:00AM	6.76		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.9	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:53:00PM	4.58	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 10:44:00AM	435		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 8:52:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 10:41:00AM	25		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 8:52:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:07:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 8:52:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	186	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 8:52:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 8:52:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 8:52:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 8:52:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 10:44:00AM	0.8		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:07:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 8:52:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 8:52:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:07:00PM	7	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17198  
 WACS Testsite Name: MWB 19S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 11:11:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 9:20:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 4:40:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 9:20:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 9:20:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 4:40:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:20:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 9:20:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:20:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 9:20:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 9:20:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 9:20:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 9:20:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 9:20:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.45	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.59	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 8:12:00PM	45.9	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 9:20:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 9:20:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 9:20:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 9:20:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 9:20:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	20	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 9:20:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 9:20:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:12:00PM	1.3	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:20:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:20:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.4	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP-Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17198  
 WACS Testsite Name: MWB 19S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 11:11:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 9:20:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 11:10:00AM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 9:20:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 9:20:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 11:10:00AM	119.95		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 9:20:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 3:58:00PM	1090	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 9:20:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:01:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 9:20:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.8	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 7:00:00PM	0.14	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 9:20:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 11:10:00AM	4.58		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:12:00PM	1.6	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 3:57:00PM	12.1	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 11:10:00AM	194		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 9:20:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 11:10:00AM	26.6		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 9:20:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:12:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 9:20:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	110	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:20:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:20:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 9:20:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 9:20:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 11:10:00AM	2.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:12:00PM	3.2	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 9:20:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 9:20:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:12:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17232  
 WACS Testsite Name: MWB 17S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 11:38:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 9:48:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 9:48:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 5:02:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 9:48:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 9:48:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 5:02:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:48:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 9:48:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 9:48:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 9:48:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 9:48:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 9:48:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 9:48:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 9:48:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.15	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.67	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	8/10/2009 8:17:00PM	3.9	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 9:48:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 9:48:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 9:48:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 9:48:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 9:48:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	7.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 9:48:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 9:48:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:17:00PM	1.6	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:48:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:48:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17232  
 WACS Testsite Name: MWB 17S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/28/2009 11:38:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 9:48:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 11:37:00AM	2.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 9:48:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 9:48:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 11:37:00AM	121.79		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 9:48:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:03:00PM	193	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 9:48:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:02:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 9:48:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:17:00PM	1.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 7:15:00PM	0.14	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/30/2009 9:48:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 11:37:00AM	4.86		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:17:00PM	1	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:02:00PM	4.42	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 11:37:00AM	99		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 9:48:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 11:37:00AM	26.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 9:48:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:17:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 9:48:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	56	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 9:48:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 9:48:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 9:48:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 9:48:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 11:37:00AM	5.4		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:17:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 9:48:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 9:48:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:17:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17231  
 WACS Testsite Name: MWB 171  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/28/2009 12:33:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 10:15:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 10:15:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 5:24:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 10:15:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 10:15:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 5:24:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:15:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 10:15:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:15:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 10:15:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 10:15:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 10:15:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 10:15:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 10:15:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.23	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 8:21:00PM	33.5	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 10:15:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 10:15:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 10:15:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 10:15:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 10:15:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	5.1	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 10:15:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 10:15:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:15:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:15:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17231  
 WACS Testsite Name: MWB 171  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:33:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 10:15:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 12:32:00PM	0.3		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 10:15:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 10:15:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 12:32:00PM	134.99		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 10:15:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:07:00PM	303	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 10:15:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:04:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 10:15:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 7:30:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 10:15:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 12:32:00PM	4.39		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:21:00PM	1	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:06:00PM	3.21	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 12:32:00PM	35		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 10:15:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 12:32:00PM	25.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 10:15:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:21:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 10:15:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	21	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:15:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:15:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 10:15:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 10:15:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 12:32:00PM	0.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:21:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 10:15:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 10:15:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:21:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17230  
 WACS Testsite Name: MWB 17D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:05:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 10:43:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 10:43:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 10:43:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 5:46:00AM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 10:43:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 5:46:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:43:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 10:43:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:43:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 10:43:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 10:43:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 10:43:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 10:43:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 10:43:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.034	0.025	MG/L	I
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 8:26:00PM	32	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 10:43:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 10:43:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 10:43:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 10:43:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 10:43:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	6.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 10:43:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 10:43:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:26:00PM	1	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:43:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:43:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17230  
 WACS Testsite Name: MWB 17D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:05:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 10:43:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 12:04:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 10:43:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 10:43:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 12:04:00PM	131.15		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 10:43:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:11:00PM	356	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 10:43:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:05:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 10:43:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 7:45:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 10:43:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 12:04:00PM	4.98		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:26:00PM	1	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:10:00PM	3.27	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 12:04:00PM	64		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 10:43:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 12:04:00PM	26		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 10:43:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:26:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 10:43:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	44	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:43:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:43:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 10:43:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 10:43:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 12:04:00PM	0.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:26:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 10:43:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 10:43:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:26:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17182  
 WACS Testsite Name: MWB 3I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/28/2009 1:07:00PM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:10:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:10:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:10:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 6:08:00AM	0.0057	0.0057	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:10:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 6:08:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:10:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:10:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:10:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:10:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 11:10:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:10:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 11:10:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:10:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.44	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 8:50:00PM	23.2	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/30/2009 11:10:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 11:10:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:10:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:10:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 11:10:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	5.7	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:10:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 11:10:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:10:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:10:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.4	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
WACS Testsite ID #: 17182  
WACS Testsite Name: MWB 3I  
Water Classification: G-II  
(i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 1:07:00PM  
Sampling Method:  
Permitted Well Type: BG - Background

\* Well Purged prior to  
Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 11:10:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 1:06:00PM	0.5		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:10:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:10:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 1:06:00PM	143.21		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:10:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:25:00PM	610	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:10:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:07:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:10:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 9:15:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 11:10:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 1:06:00PM	4.23		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:24:00PM	3.53	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 1:06:00PM	45		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 11:10:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 1:06:00PM	22.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:10:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:50:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 11:10:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	18	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:10:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:10:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:10:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 11:10:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 1:06:00PM	0.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:50:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:10:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:10:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:50:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17183  
 WACS Testsite Name: MWB 3S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 1:32:00PM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:38:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:38:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 6:30:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:38:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:38:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 6:30:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:38:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:38:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:38:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:38:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/30/2009 11:38:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:38:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/30/2009 11:38:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:38:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 8:55:00PM	14.8	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/30/2009 11:38:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/30/2009 11:38:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:38:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:38:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/30/2009 11:38:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	6.9	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:38:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/30/2009 11:38:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:38:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:38:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17183  
 WACS Testsite Name: MWB 3S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 1:32:00PM  
 Sampling Method:  
 Permitted Well Type: BG - Background

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/30/2009 11:38:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 1:31:00PM	1.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:38:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:38:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 1:31:00PM	145.73		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:38:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:29:00PM	324	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:38:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:08:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:38:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 9:30:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/30/2009 11:38:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 1:31:00PM	4.05		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 8:55:00PM	1.3	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:28:00PM	2.85	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 1:31:00PM	60		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/30/2009 11:38:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 1:31:00PM	23.4		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:38:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 8:55:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/30/2009 11:38:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	17	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:38:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:38:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:38:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/30/2009 11:38:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 1:31:00PM	0.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 8:55:00PM	1.4	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:38:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:38:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 8:55:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge  
**PARAMETER MONITORING REPORT**  
 Rule 62-701  
**WACS Report Type:**  
 Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17208  
 WACS Testsite Name: MWB 31D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 2:03:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 12:06:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 12:06:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 6:51:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 12:06:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 12:06:00AM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 6:51:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 12:06:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 12:06:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 12:06:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 12:06:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 12:06:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 12:06:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 12:06:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 12:06:00AM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.15	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.46	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 9:00:00PM	87.7	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 12:06:00AM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 12:06:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 12:06:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 12:06:00AM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 12:06:00AM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	5.3	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 12:06:00AM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 12:06:00AM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.9	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 12:06:00AM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 12:06:00AM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP-Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17208  
 WACS Testsite Name: MWB 31D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 2:03:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 12:06:00AM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 2:02:00PM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 12:06:00AM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 12:06:00AM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 2:02:00PM	138.25		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 12:06:00AM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:33:00PM	750	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.5	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 12:06:00AM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:10:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 12:06:00AM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 9:00:00PM	1.4	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 9:45:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 12:06:00AM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 2:02:00PM	6.47		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 9:00:00PM	1.6	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:32:00PM	6.24	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 2:02:00PM	440		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 12:06:00AM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 2:02:00PM	25.3		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 12:06:00AM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 9:00:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 12:06:00AM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	200	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 12:06:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 12:06:00AM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 12:06:00AM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 12:06:00AM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 2:02:00PM	0.3		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 9:00:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 12:06:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 12:06:00AM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 9:00:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20110  
 WACS Testsite Name: MWB 34D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/28/2009 2:40:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 12:33:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 12:33:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 7:35:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 12:33:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 12:33:00AM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 7:35:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 12:33:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 12:33:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 12:33:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 12:33:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 12:33:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 12:33:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 12:33:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 12:33:00AM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.19	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/10/2009 9:04:00PM	103	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 12:33:00AM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 12:33:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 12:33:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 12:33:00AM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 12:33:00AM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	4.8	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 12:33:00AM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 12:33:00AM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 12:33:00AM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 12:33:00AM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20110  
 WACS Testsite Name: MWB 34D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/28/2009 2:40:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 12:33:00AM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 2:39:00PM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 12:33:00AM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 12:33:00AM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 2:39:00PM	116.8		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 12:33:00AM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:37:00PM	434	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 12:33:00AM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:11:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 12:33:00AM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 9:04:00PM	1	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 10:00:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 12:33:00AM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 2:39:00PM	6.65		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:37:00PM	6.18	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 2:39:00PM	517		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 12:33:00AM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 2:39:00PM	26		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 12:33:00AM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 9:04:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 12:33:00AM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	230	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 12:33:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 12:33:00AM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 12:33:00AM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 12:33:00AM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 2:39:00PM	0.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 9:04:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 12:33:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 12:33:00AM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 9:04:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20109  
 WACS Testsite Name: MWB 34I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 3:13:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 1:01:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 1:01:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 7:57:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 1:01:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 1:01:00AM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 7:57:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:01:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 1:01:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:01:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 1:01:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 1:01:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 1:01:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 1:01:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 1:01:00AM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.045	0.025	MG/L	I
1097	Antimony, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.36	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/10/2009 9:09:00PM	48	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 1:01:00AM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 1:01:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 1:01:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 1:01:00AM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 1:01:00AM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	5.7	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 1:01:00AM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 1:01:00AM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:01:00AM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:01:00AM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

Page 1 of 2

Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
WACS Testsite ID #: 20109  
WACS Testsite Name: MWB 34I  
Water Classification: G-II  
(i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/28/2009 3:13:00PM  
Sampling Method:  
Permitted Well Type: CO - Compliance

\* Well Purged prior to  
Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 1:01:00AM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 3:12:00PM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 1:01:00AM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 1:01:00AM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 3:12:00PM	116.85		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 1:01:00AM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:42:00PM	405	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.2	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 1:01:00AM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:13:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 1:01:00AM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 10:15:00PM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 1:01:00AM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 3:12:00PM	4.8		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.9	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:41:00PM	3.44	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 3:12:00PM	50		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 1:01:00AM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 3:12:00PM	25.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 1:01:00AM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 9:09:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 1:01:00AM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	35	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:01:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:01:00AM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 1:01:00AM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 1:01:00AM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 3:12:00PM	1.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 9:09:00PM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 1:01:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 1:01:00AM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 9:09:00PM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20108  
 WACS Testsite Name: MWB 34S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 3:35:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 1:29:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 1:29:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 8:19:00AM	0.0057	0.0057	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 1:29:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 1:29:00AM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 8:19:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:29:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 1:29:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:29:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 1:29:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 1:29:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 1:29:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 1:29:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 1:29:00AM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	1.5	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/10/2009 9:14:00PM	1.57	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	8/10/2009 9:14:00PM	3.1	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 1:29:00AM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 1:29:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 1:29:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 1:29:00AM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 1:29:00AM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/29/2009 3:16:00PM	30	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 1:29:00AM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 1:29:00AM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/10/2009 9:14:00PM	2.6	0.8	UG/L	
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:29:00AM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:29:00AM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/10/2009 9:14:00PM	1.1	0.2	UG/L	
1042	Copper, Total	N	E82502	6020	8/10/2009 9:14:00PM	1.7	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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WACS Facility ID #: 33628  
 WACS Testsite ID #: 20108  
 WACS Testsite Name: MWB 34S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/28/2009 3:35:00PM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 1:29:00AM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/28/2009 3:34:00PM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 1:29:00AM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 1:29:00AM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/28/2009 3:34:00PM	116.35		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 1:29:00AM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/3/2009 4:46:00PM	146	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 1:29:00AM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/5/2009 5:14:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 1:29:00AM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/10/2009 9:14:00PM	6.7	0.3	UG/L	
620	NITRATE NITROGEN (as N)	N	E82502	300	7/29/2009 10:30:00PM	0.15	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/31/2009 1:29:00AM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/28/2009 3:34:00PM	5.75		pH Units	
1147	Selenium, Total	N	E82502	6020	8/10/2009 9:14:00PM	2.9	0.8	UG/L	
1077	Silver, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/3/2009 4:45:00PM	52.5	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/28/2009 3:34:00PM	1194		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 1:29:00AM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/28/2009 3:34:00PM	26.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 1:29:00AM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/10/2009 9:14:00PM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 1:29:00AM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 2:45:00PM	660	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:29:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:29:00AM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 1:29:00AM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 1:29:00AM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/28/2009 3:34:00PM	0.1		NTU	
1087	Vanadium, Total	N	E82502	6020	8/10/2009 9:14:00PM	6.1	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 1:29:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 1:29:00AM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/10/2009 9:14:00PM	7	4	UG/L	I

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank 1  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/28/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 1:56:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 1:56:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 1:56:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 1:56:00AM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:56:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 1:56:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 1:56:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 1:56:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 1:56:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 1:56:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 1:56:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 1:56:00AM	0.59	0.59	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 1:56:00AM	0.52	0.52	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 1:56:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.14	0.14	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 1:56:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 1:56:00AM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 1:56:00AM	0.25	0.25	UG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 1:56:00AM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 1:56:00AM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.17	0.17	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:56:00AM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:56:00AM	0.12	0.12	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/31/2009 1:56:00AM	0.12	0.12	UG/L	U
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 1:56:00AM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 1:56:00AM	0.15	0.15	UG/L	U
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 1:56:00AM	2.5	2.5	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 1:56:00AM	0.22	0.22	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 1:56:00AM	0.72	0.72	UG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 1:56:00AM	0.1	0.1	UG/L	U
77128	Styrene	N	E82502	8260B	7/31/2009 1:56:00AM	0.051	0.051	UG/L	U
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 1:56:00AM	0.22	0.22	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 1:56:00AM	0.52	0.52	UG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 1:56:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 1:56:00AM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank 1  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 1:56:00AM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 1:56:00AM	0.15	0.15	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 1:56:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 1:56:00AM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge  
**PARAMETER MONITORING REPORT**  
 Rule 62-701  
**WACS Report Type:**  
 Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank 2  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 2:24:00AM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 2:24:00AM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 2:24:00AM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 2:24:00AM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 2:24:00AM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 2:24:00AM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 2:24:00AM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 2:24:00AM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 2:24:00AM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 2:24:00AM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 2:24:00AM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 2:24:00AM	0.59	0.59	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 2:24:00AM	0.52	0.52	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 2:24:00AM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.14	0.14	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 2:24:00AM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 2:24:00AM	0.18	0.18	UG/L	U
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34311	Chloroethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 2:24:00AM	0.1	0.1	UG/L	U
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46361	Dibromomethane	N	E82502	8260B	7/31/2009 2:24:00AM	0.12	0.12	UG/L	U
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34423	Methylene Chloride	N	E82502	8260B	7/31/2009 2:24:00AM	0.72	0.72	UG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 2:24:00AM	0.1	0.1	UG/L	U
77128	Styrene	N	E82502	8260B	7/31/2009 2:24:00AM	0.051	0.051	UG/L	U
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 2:24:00AM	0.22	0.22	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 2:24:00AM	0.52	0.52	UG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 2:24:00AM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 2:24:00AM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

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WACS Facility ID #: 33628  
 WACS Testsite ID #:  
 WACS Testsite Name: Trip Blank 2  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/28/2009 12:00:00AM  
 Sampling Method:  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
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39180	Trichloroethene	N	E82502	8260B	7/31/2009 2:24:00AM	0.15	0.15	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 2:24:00AM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 2:24:00AM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



August 14, 2009

Service Request No: J0903705

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

**Laboratory Results for: Trail Ridge**

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 29, 2009. For your reference, these analyses have been assigned our service request number **J0903705**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

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COLUMBIA ANALYTICAL SERVICES, INC.

Client: HDR Engineering  
Project: Trail Ridge  
Sample Matrix: Water

Service Request No.: J0903705  
Date Received: 7/29/09

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

Seven water samples and one trip blank were received for analysis at Columbia Analytical Services on 7/29/09. 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. No problems were observed.

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. The following observations were made regarding this delivery group.

Laboratory Control Sample Exceptions

The spike recovery of 1,2-Dibromo-3-chloropropane for Laboratory Control Sample (LCS) JWG0902511-1 and Duplicate Laboratory Control Sample (LCS) JWG0902511-2 was outside the upper control criterion (131% and 133% versus a criterion of 130%). 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.

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.

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/14/09

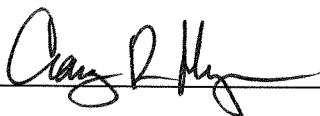
Batch QC Notes and Discussion

Some 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 Methods. No problems were observed.

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/14/09

## 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

Service Request: J0903705

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903705-001	MWB32S	7/29/09	08:17
J0903705-002	MWB32I	7/29/09	08:37
J0903705-003	MWB32D	7/29/09	09:10
J0903705-004	MWB33S	7/29/09	09:41
J0903705-005	DUP04	7/29/09	09:41
J0903705-006	MWB21S	7/29/09	10:25
J0903705-007	FB	7/29/09	10:35
J0903705-008	Trip Blank	7/29/09	00:00

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB32S  
**Lab Code:** J0903705-001  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
<b>Acetone</b>	<b>3.2</b>	<b>I</b>	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB32S  
**Lab Code:** J0903705-001  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	0.18	I	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	0.71	I	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	0.36	I	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	96	82-116	Acceptable
Toluene-d8	95	88-117	Acceptable

**Comments:** \_\_\_\_\_



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32I  
 Lab Code: J0903705-002  
 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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB32I  
**Lab Code:** J0903705-002  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	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  
 Sample Matrix: Water

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

## Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB32D  
 Lab Code: J0903705-003  
 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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB32D  
**Lab Code:** J0903705-003  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	94	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB33S  
**Lab Code:** J0903705-004  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB33S  
**Lab Code:** J0903705-004  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	96	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP04  
**Lab Code:** J0903705-005  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** DUP04  
**Lab Code:** J0903705-005  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	93	75-120	Acceptable
Dibromofluoromethane	95	82-116	Acceptable
Toluene-d8	98	88-117	Acceptable

**Comments:** \_\_\_\_\_



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MWB21S  
 Lab Code: J0903705-006  
 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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** MWB21S  
**Lab Code:** J0903705-006  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	89	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	93	82-116	Acceptable
Toluene-d8	93	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** FB  
**Lab Code:** J0903705-007  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** FB  
**Lab Code:** J0903705-007  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	92	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  
**Sample Matrix:** Water

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank  
**Lab Code:** J0903705-008  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

**Comments:**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank  
 Lab Code: J0903705-008  
 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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	97	71-122	Acceptable
4-Bromofluorobenzene	90	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	97	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902499-4  
**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	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902499-4  
**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	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

Comments:



Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

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

Sample Name: MWB32S  
 Lab Code: J0903705-001  
 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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

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  
**Sample Matrix:** Water

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** MWB32I  
**Lab Code:** J0903705-002  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	119	77-150	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

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

Sample Name: MWB32D  
 Lab Code: J0903705-003  
 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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	121	77-150	Acceptable

Comments: \_\_\_\_\_

Analytical Results

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

Service Request: J0903705  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

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

Sample Name: MWB33S  
 Lab Code: J0903705-004  
 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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	117	77-150	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** DUP04  
**Lab Code:** J0903705-005  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	122	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** MWB21S  
**Lab Code:** J0903705-006  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** FB  
**Lab Code:** J0903705-007  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	124	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903705  
**Date Collected:** NA  
**Date Received:** NA

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

**Sample Name:** Method Blank  
**Lab Code:** JWG0902511-3  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB32S  
**Lab Code:** J0903705-001

**Service Request:** J0903705  
**Date Collected:** 7/29/09 0817  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:05
Arsenic, Total	6020	<b>1.22</b>	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:05
Barium, Total	6020	<b>17.5</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:05
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:05
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:05
Chromium, Total	6020	<b>1.6 I</b>	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:05
Cobalt, Total	6020	<b>0.2 I</b>	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:05
Copper, Total	6020	<b>0.6 I</b>	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:05
Iron, Total	6010B	<b>231</b>	µg/L	50	4	1	8/ 4/09	8/5/09 17:25
Lead, Total	6020	<b>0.2 I</b>	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:05
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:20
Nickel, Total	6020	<b>0.5 I</b>	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:05
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:05
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:05
Sodium, Total	6010B	<b>29.5</b>	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 17:24
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:05
Vanadium, Total	6020	<b>1.8 I</b>	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:05
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:05

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Water  
 Sample Name: MWB32I  
 Lab Code: J0903705-002

Service Request: J0903705  
 Date Collected: 7/29/09 0837  
 Date Received: 7/29/09

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	0.4	1	8/ 3/09	8/9/09 06:20
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:20
Barium, Dissolved	6020	32.2	µg/L	2.0	0.5	1	7/31/09	8/6/09 04:24
Barium, Total	6020	43.5	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:20
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:20
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:20
Chromium, Dissolved	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/6/09 04:24
Chromium, Total	6020	2.7	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:20
Cobalt, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/13/09 16:28
Cobalt, Total	6020	0.3 I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:20
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:20
Iron, Dissolved	6010B	252	µg/L	50	4	1	7/31/09	8/3/09 18:28
Iron, Total	6010B	450	µg/L	50	4	1	8/ 4/09	8/5/09 17:29
Lead, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/6/09 04:24
Lead, Total	6020	2.4	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:20
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:21
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:20
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:20
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:20
Sodium, Dissolved	6010B	2.87	mg/L	0.50	0.02	1	7/31/09	8/3/09 18:27
Sodium, Total	6010B	3.03	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 17:28
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:20
Vanadium, Dissolved	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/13/09 16:28
Vanadium, Total	6020	2.5 I	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:20
Zinc, Dissolved	6020	ND U	µg/L	10	4	1	7/31/09	8/6/09 04:24
Zinc, Total	6020	5 I	µg/L	10	4	1	8/ 3/09	8/9/09 06:20

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB32D  
**Lab Code:** J0903705-003

**Service Request:** J0903705  
**Date Collected:** 7/29/09 0910  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:25
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:25
Barium, Total	6020	<b>45.5</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:25
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:25
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:25
Chromium, Total	6020	<b>0.9</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:25
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:25
Copper, Total	6020	<b>0.6</b> I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:25
Iron, Total	6010B	<b>626</b>	µg/L	50	4	1	8/ 4/09	8/5/09 18:39
Lead, Total	6020	<b>0.5</b> I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:25
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:10
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:25
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:25
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:25
Sodium, Total	6010B	<b>4.31</b>	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 18:38
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:25
Vanadium, Total	6020	<b>1.5</b> I	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:25
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:25

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB33S  
**Lab Code:** J0903705-004

**Service Request:** J0903705  
**Date Collected:** 7/29/09 0941  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:40
Arsenic, Total	6020	<b>1.16</b>	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:40
Barium, Total	6020	<b>8.9</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:40
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:33
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:40
Chromium, Total	6020	<b>2.4</b>	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:40
Cobalt, Total	6020	<b>0.2</b> I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:40
Copper, Total	6020	<b>0.6</b> I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:40
Iron, Total	6010B	<b>272</b>	µg/L	50	4	1	8/ 4/09	8/5/09 18:44
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:40
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:23
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:40
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:40
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:40
Sodium, Total	6010B	<b>28.8</b>	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 18:43
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:40
Vanadium, Total	6020	<b>13.4</b>	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:40
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:40

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** DUP04  
**Lab Code:** J0903705-005

**Service Request:** J0903705  
**Date Collected:** 7/29/09 0941  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:45
Arsenic, Total	6020	<b>1.03</b>	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:45
Barium, Total	6020	<b>9.1</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:45
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:38
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:45
Chromium, Total	6020	<b>2.5</b>	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:45
Cobalt, Total	6020	<b>0.2</b> I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:45
Copper, Total	6020	<b>0.5</b> I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:45
Iron, Total	6010B	<b>293</b>	µg/L	50	4	1	8/ 4/09	8/5/09 18:48
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:45
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:24
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:45
Selenium, Total	6020	<b>1.0</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:45
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:45
Sodium, Total	6010B	<b>30.0</b>	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 18:47
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:45
Vanadium, Total	6020	<b>12.9</b>	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:45
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:45

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** MWB21S  
**Lab Code:** J0903705-006

**Service Request:** J0903705  
**Date Collected:** 7/29/09 1025  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:50
Arsenic, Total	6020	0.22 I	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:50
Barium, Total	6020	4.8	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:50
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:43
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:50
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:50
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:50
Copper, Total	6020	0.6 I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:50
Iron, Total	6010B	159	µg/L	50	4	1	8/ 4/09	8/5/09 18:52
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:50
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:26
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:50
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:50
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:50
Sodium, Total	6010B	2.97	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 18:51
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:50
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:50
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:50

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** FB  
**Lab Code:** J0903705-007

**Service Request:** J0903705  
**Date Collected:** 7/29/09 1035  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:55
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:55
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:55
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:47
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:55
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:55
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:55
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:55
Iron, Total	6010B	ND U	µg/L	50	4	1	8/ 4/09	8/5/09 18:57
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:55
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:27
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:55
Selenium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:55
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:55
Sodium, Total	6010B	<b>0.09</b> I	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 18:56
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:55
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:55
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 06:55

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J0903705-MB

**Service Request:** J0903705  
**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	0.4	1	8/ 3/09	8/9/09 04:40
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 04:40
Barium, Dissolved	6020	ND U	µg/L	2.0	0.5	1	7/31/09	8/6/09 03:01
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 04:40
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 04:40
Chromium, Dissolved	6020	ND U	µg/L	2.0	0.8	1	7/31/09	8/6/09 03:01
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Cobalt, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/13/09 16:20
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Iron, Dissolved	6010B	ND U	µg/L	50	4	1	7/31/09	8/3/09 17:21
Iron, Total	6010B	ND U	µg/L	50	4	1	8/ 4/09	8/5/09 17:10
Lead, Dissolved	6020	ND U	µg/L	1.0	0.2	1	7/31/09	8/6/09 03:01
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:05
Nickel, Total	6020	1.1 I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Selenium, Total	6020	1.3 I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 04:40
Sodium, Dissolved	6010B	0.11 I	mg/L	0.50	0.02	1	7/31/09	8/3/09 17:20
Sodium, Total	6010B	ND U	mg/L	0.50	0.02	1	8/ 4/09	8/5/09 17:09
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Vanadium, Dissolved	6020	ND U	µg/L	5.0	1.2	1	7/31/09	8/13/09 16:20
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 04:40
Zinc, Dissolved	6020	ND U	µg/L	10	4	1	7/31/09	8/6/09 03:01
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 04:40

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** MWB32S  
**Lab Code :** J0903705-001  
**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	0.025	1	08/09/09 16:17	0.44	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	45	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 08:16	507	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 01:14	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 08:16	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 08:16	4.99	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	230	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 08:16	24.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 08:16	7.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** MWB321  
**Lab Code :** J0903705-002  
**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	0.025	1	08/09/09 16:17	0.22	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	6.2	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 08:36	49	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 01:59	0.14	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 08:36	0.0	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 08:36	4.93	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	27	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 08:36	21.9	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 08:36	61.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** MWB32D  
**Lab Code :** J0903705-003  
**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	0.025	1	08/09/09 16:17	0.081	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	6.4	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 09:09	159	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 02:14	0.14	i
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 09:09	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 09:09	5.61	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	69	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 09:09	22.0	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 09:09	2.8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** MWB33S  
**Lab Code :** J0903705-004  
**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	0.025	1	08/09/09 16:17	1.9	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	31	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 09:40	351	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 02:29	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 09:40	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 09:40	4.98	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	200	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 09:40	24.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 09:40	0.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

Sample Name : DUP04  
 Lab Code : J0903705-005  
 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	0.025	1	08/09/09 16:17	1.9	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	31	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 09:40	351	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 02:44	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 09:40	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 09:40	4.98	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	200	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 09:40	24.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 09:40	0.6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** MWB21S  
**Lab Code :** J0903705-006  
**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	0.025	1	08/09/09 16:17	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	5.7	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 10:24	93	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 03:43	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 10:24	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 10:24	5.03	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	48	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 10:24	26.6	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 10:24	0.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** FB  
**Lab Code :** J0903705-007  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	U	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 10:35	2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 03:58	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 10:35	5.9	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 10:35	5.34	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	U	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 10:35	27.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 10:35	0.1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903705  
**Date Collected :** NA  
**Date Received :** NA

Inorganic Parameters

**Sample Name :** Method Blank  
**Lab Code :** J0903705-MB  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	08/09/09 16:17	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 00:29	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	5	1	08/04/09 17:40	U	



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903705

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

Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
MWB32S	J0903705-001	88	93	96	95
MWB32I	J0903705-002	91	91	97	100
MWB32D	J0903705-003	89	93	94	94
MWB33S	J0903705-004	94	93	98	96
DUP04	J0903705-005	91	93	95	98
MWB21S	J0903705-006	89	92	93	93
FB	J0903705-007	94	92	97	100
Trip Blank	J0903705-008	97	90	98	97
Method Blank	JWG0902499-4	88	95	99	94
Lab Control Sample	JWG0902499-3	85	94	91	95

Surrogate Recovery Control Limits (%)

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

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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  
**Sample Matrix:** Water

**Service Request:** J0903705  
**Date Extracted:** 07/31/2009  
**Date Analyzed:** 07/31/2009

**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:** JWG0902499

Lab Control Sample  
 JWG0902499-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	17.2	20.0	86	67-135
Vinyl Chloride	19.4	20.0	97	78-132
Bromomethane	19.6	20.0	98	79-130
Chloroethane	23.6	20.0	118	74-126
Trichlorofluoromethane	21.0	20.0	105	74-134
1,1-Dichloroethene	20.4	20.0	102	78-130
Acetone	90.9	100	91	67-133
Iodomethane (Methyl Iodide)	115	100	115	68-134
Carbon Disulfide	103	100	103	76-138
Methylene Chloride	19.9	20.0	100	72-124
trans-1,2-Dichloroethene	19.9	20.0	100	77-124
Acrylonitrile	89.0	100	89	77-127
1,1-Dichloroethane	19.9	20.0	99	80-128
Vinyl Acetate	93.4	100	93	61-148
cis-1,2-Dichloroethene	19.8	20.0	99	80-126
2-Butanone (MEK)	88.3	100	88	73-127
Bromochloromethane	19.8	20.0	99	79-129
Chloroform	19.7	20.0	98	83-124
1,1,1-Trichloroethane (TCA)	20.0	20.0	100	79-124
Carbon Tetrachloride	19.7	20.0	98	81-125
Benzene	19.7	20.0	99	79-119
1,2-Dichloroethane (EDC)	19.5	20.0	98	80-124
Trichloroethene (TCE)	19.7	20.0	98	76-124
1,2-Dichloropropane	20.0	20.0	100	79-123
Dibromomethane	18.7	20.0	94	83-123
Bromodichloromethane	19.3	20.0	97	81-123
cis-1,3-Dichloropropene	19.5	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	88.5	100	89	72-136
Toluene	19.4	20.0	97	86-117
trans-1,3-Dichloropropene	19.3	20.0	96	83-124
1,1,2-Trichloroethane	18.1	20.0	90	86-114
Tetrachloroethene (PCE)	20.1	20.0	100	80-121
2-Hexanone	85.8	100	86	71-138
Dibromochloromethane	18.5	20.0	92	82-121
1,2-Dibromoethane (EDB)	18.2	20.0	91	88-117
Chlorobenzene	19.1	20.0	96	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  
**Sample Matrix:** Water

**Service Request:** J0903705  
**Date Extracted:** 07/31/2009  
**Date Analyzed:** 07/31/2009

**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:** JWG0902499

Lab Control Sample  
 JWG0902499-3  
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,1,1,2-Tetrachloroethane	19.0	20.0	95	85-117
Ethylbenzene	19.4	20.0	97	90-118
m,p-Xylenes	38.4	40.0	96	86-121
o-Xylene	19.6	20.0	98	89-119
Styrene	19.1	20.0	96	89-122
Bromoform	17.4	20.0	87	68-129
1,1,2,2-Tetrachloroethane	17.0	20.0	85	83-120
1,2,3-Trichloropropane	16.8	20.0	84	83-123
1,4-Dichlorobenzene	18.6	20.0	93	83-113
trans-1,4-Dichloro-2-butene	16.9	20.0	84	53-143
1,2-Dichlorobenzene	18.2	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP)	13.9	20.0	70	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  
**Sample Matrix:** Water

**Service Request:** J0903705

**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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MWB32S	J0903705-001	115
MWB32I	J0903705-002	119
MWB32D	J0903705-003	121
MWB33S	J0903705-004	117
DUP04	J0903705-005	122
MWB21S	J0903705-006	118
FB	J0903705-007	124
Method Blank	JWG0902511-3	118
Lab Control Sample	JWG0902511-1	116
Duplicate Lab Control Sample	JWG0902511-2	123

**Surrogate Recovery Control Limits (%)**

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

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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  
 Sample Matrix: Water

Service Request: J0903705  
 Date Extracted: 08/04/2009  
 Date Analyzed: 08/05/2009

**Lab Control Spike/Duplicate 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: JWG0902511

Analyte Name	Lab Control Sample JWG0902511-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902511-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.312	0.250	125	0.322	0.250	129	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP)	0.327	0.250	131 *	0.332	0.250	133 *	70-130	2	20

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  
**Sample Matrix:** Water

**Service Request:** J0903705  
**Date Collected:** 7/29/09  
**Date Received:** 7/29/09  
**Date Analyzed:** 8/9/09

**Matrix Spike Summary  
 Inorganic Parameters**

**Sample Name:** MWB32S  
**Lab Code:** J0903705-001

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 6020  
**Prep Method:** EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0903705-MS1			Duplicate Matrix Spike J0903705-DMS1			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Antimony, Total	ND	49.3	50.0	99	50.3	50.0	101	75 - 125	2	20
Arsenic, Total	1.22	53.2	50.0	104	53.3	50.0	104	75 - 125	0	20
Barium, Total	17.5	66.3	50.0	98	65.8	50.0	97	75 - 125	1	20
Beryllium, Total	ND	44.6	50.0	89	44.6	50.0	89	75 - 125	0	20
Cadmium, Total	ND	48.3	50.0	97	48.7	50.0	97	75 - 125	1	20
Chromium, Total	1.6	49.0	50.0	95	49.4	50.0	96	75 - 125	1	20
Cobalt, Total	0.2	48.2	50.0	96	48.7	50.0	97	75 - 125	1	20
Copper, Total	0.6	50.4	50.0	100	50.4	50.0	100	75 - 125	0	20
Lead, Total	0.2	49.3	50.0	98	50.7	50.0	101	75 - 125	3	20
Nickel, Total	0.5	48.4	50.0	96	48.7	50.0	96	75 - 125	1	20
Selenium, Total	ND	51.0	50.0	102	49.3	50.0	99	75 - 125	3	20
Silver, Total	ND	48.9	50.0	98	49.2	50.0	98	75 - 125	0	20
Thallium, Total	ND	49.3	50.0	99	49.9	50.0	100	75 - 125	1	20
Vanadium, Total	1.8	48.0	50.0	92	48.8	50.0	94	75 - 125	2	20
Zinc, Total	ND	97.6	100	98	97.0	100	97	75 - 125	1	20

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

**Service Request:** J0903705  
**Date Collected:** 7/29/09  
**Date Received:** 7/29/09  
**Date Analyzed:** 8/ 5/09

**Matrix Spike Summary  
Inorganic Parameters**

**Sample Name:** MWB32I  
**Lab Code:** J0903705-002

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 6010B  
**Prep Method:** EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903705-MS2			Duplicate Matrix Spike J0903705-DMS2			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Iron, Total	450	2280	2000	91	2290	2000	92	75 - 125	0	20

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903705  
Date Collected: 7/29/09  
Date Received: 7/29/09  
Date Analyzed: 8/ 5/09

Matrix Spike Summary  
Inorganic Parameters

Sample Name: MWB32I  
Lab Code: J0903705-002

Units: mg/L  
Basis: NA

Analytical Method: 6010B  
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0903705-MS2			Duplicate Matrix Spike J0903705-DMS2			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Sodium, Total	3.03	12.8	10.0	97	12.9	10.0	99	75 - 125	1	20

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903705  
**Date Collected:** 7/29/09  
**Date Received:** 7/29/09  
**Date Analyzed:** 8/6/09

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

**Sample Name:** MWB32D  
**Lab Code:** J0903705-003

**Units:** µg/L  
**Basis:** NA

**Analytical Method:** 7470A  
**Prep Method:** Method

Analyte Name	Sample Result	Matrix Spike J0903705-MS3			Duplicate Matrix Spike J0903705-DMS3			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Mercury, Total	ND	5.63	5.00	113	5.23	5.00	105	75 - 125	7	20

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903705  
**Date Analyzed:** 8/ 3/09 -  
 8/13/09

**Lab Control Sample Summary  
 Inorganic Parameters**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903705-LCS2			% Rec Limits
		Result	Expected	% Rec	
Antimony, Total	6020	51.0	50.0	102	80 - 120
Arsenic, Total	6020	50.8	50.0	102	80 - 120
Barium, Dissolved	6020	49.6	50.0	99	80 - 120
Barium, Total	6020	51.8	50.0	104	80 - 120
Beryllium, Total	6020	48.9	50.0	98	80 - 120
Cadmium, Total	6020	51.1	50.0	102	80 - 120
Chromium, Dissolved	6020	47.2	50.0	94	80 - 120
Chromium, Total	6020	50.6	50.0	101	80 - 120
Cobalt, Dissolved	6020	48.2	50.0	96	80 - 120
Cobalt, Total	6020	51.2	50.0	102	80 - 120
Copper, Total	6020	50.5	50.0	101	80 - 120
Iron, Dissolved	6010B	1890	2.00	95	80 - 120
Iron, Total	6010B	1910	2000	95	80 - 120
Lead, Dissolved	6020	47.9	50.0	96	80 - 120
Lead, Total	6020	52.0	50.0	104	80 - 120
Manganese, Dissolved	6020	47.1	50.0	94	80 - 120
Nickel, Total	6020	52.0	50.0	104	80 - 120
Selenium, Total	6020	48.6	50.0	97	80 - 120
Silver, Total	6020	51.1	50.0	102	80 - 120
Thallium, Total	6020	51.6	50.0	103	80 - 120
Vanadium, Dissolved	6020	48.1	50.0	96	80 - 120
Vanadium, Total	6020	52.2	50.0	104	80 - 120
Zinc, Dissolved	6020	102	100	102	80 - 120
Zinc, Total	6020	95.6	100	96	80 - 120

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903705  
Date Analyzed: 8/ 3/09 -  
8/ 5/09

Lab Control Sample Summary  
Inorganic Parameters

Units: mg/L  
Basis: NA

Analyte Name	Method	Lab Control Sample			% Rec Limits
		Result	Expected	% Rec	
Sodium, Dissolved	6010B	10.1	10.0	101	80 - 120
Sodium, Total	6010B	9.90	10.0	99	80 - 120

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903705  
Date Analyzed: 8/6/09

Lab Control Sample Summary  
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Units: µg/L  
Basis: NA

Analyte Name	Method	Lab Control Sample J0903705-LCS1			Duplicate Lab Control Sample J0903705-DLCS1			% Rec Limits	RPD	RPD Limit
		Result	Expected	% Rec	Result	Expected	% Rec			
Mercury, Total	7470A	5.26	5.00	105	4.89	5.00	98	80 - 120	7	20

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/30-08/09/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MWB32S  
**Lab Code :** J0903705-001DUP  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
					Sample Result	Average		
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.44	0.45	0.445	2	
Chloride	mg/L (ppm)	300.0	0.2	45	45	45	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	230	250	240	8	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903705  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09  
**Date Extracted :** NA  
**Date Analyzed :** 07/30-08/09/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MWB32S  
**Lab Code :** J0903705-001MS  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	0.44	5.56	102	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	45	146	101	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.49	110	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903705  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 07/30-08/09/09

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** J0903705-LCS  
**Test Notes :**

**Basis :** NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.09	102	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.17	103	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.12	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	293	98	85-115	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: HDR Service Request # 56903763  
 Project: TRAIL RIDGE  
 Cooler received on 7/29/09 and opened on 7/29/09 by 820  
 COURIER:  CAS  UPS  FEDEX  DHL  CLIENT Tracking # \_\_\_\_\_

- |    |   |                                      |                                     |                                      |
|----|---|--------------------------------------|-------------------------------------|--------------------------------------|
| 1  | Were custody seals on outside of cooler?  | Yes                                  | <input checked="" type="radio"/> No | N/A                                  |
| 2  | Were seals intact, signed and dated?  | Yes                                  | No                                  | <input checked="" type="radio"/> N/A |
| 3  | Were custody papers properly filled out?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) <u>0.5</u>  |                                      |                                     |                                      |
| 5  | Correct Temperature?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 6  | Were Ice or Ice Packs present   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 9  | Did all bottle labels and tags agree with custody papers?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 10 | Were the correct bottles used for the tests indicated?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 11 | Were all of the preserved bottles received with the appropriate preservative?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
|    | <input checked="" type="radio"/> HNO3 pH<2 <input checked="" type="radio"/> H2SO4 pH<2    ZnAc2/NaOH pH>9    NaOH pH>12    HCl pH<2 |                                      |                                     |                                      |
|    | <small>Preservative additions noted below</small>   |                                      |                                     |                                      |
| 12 | Were all samples received within analysis holding times?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 14 | Where did the bottles originate?  | <input checked="" type="radio"/> CAS | Client                              |                                      |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:  
TRIP BLANK NOT AN COC

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date: 6/4



SR#

6/16/17

Initials:

Date:

J 0603205

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

Container	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	
Req. pH	40ml	40ml	40ml	40ml	125ml	125ml	125ml	125ml	250ml	250ml	250ml	250ml	250ml	250ml	500ml	500ml	500ml	500ml	1L	1L	1L	1L	1L	2oz	4oz	Box	16oz	5g	100ml	Misc.	
Sample #	G	G	G	G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	G	G	G	ENC	P	Misc.	
	N/A	HCl	Sodium Thiosulfate	H2SO4	N/A	HCl	H2SO4	HNO3	H2SO4	HNO3	HNO3	ZnAcetate	NbOH	NbOH	HNO3	N/A	HNO3	H2SO4	HNO3	N/A	H2SO4	HNO3	HNO3	HCl	H2SO4	N/A	N/A	N/A	N/A	N/A	
-001		3																													
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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # **70903705**  
CAS Contact

Project Name <b>TRAIL RIDGE</b>		Project Number	
Project Manager <b>BRAD STONE</b>		Email Address	
Company/Address <b>ZOO W FORSYTH ST STE 800 JACKSONVILLE FL 32202</b>		ANALYSIS REQUESTED (Include Method Number and Preservative) <b>METALS NH3 TDS, CL, NO3 VOC 1001 DIS. METALS</b>	
Phone # <b>904 598 8553</b>	FAX#	NUMBER OF CONTAINERS	
Sampler's Signature <b>Ben Ramsey</b>		Sampler's Printed Name <b>BEN RAMSEY</b>	

CLIENT SAMPLE ID	LAB ID	DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
MWB32S		7/29	0817	91W	
MWB32I		7/29	0837	91W	
MWB32D		7/29	0910	91W	
MWB33S		7/29	0941	91W	
DUP04		7/29	0941	91W	
MWB21S		7/29	1025	91W	
FB		7/29	1033	W	

SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> 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. Specialized Forms / Custom Report Extra Yes No		INVOICE INFORMATION PO# BILL TO:	
See OAPP <input type="checkbox"/>		CUSTODY SEALS: Y N		RELINQUISHED BY		RECEIVED BY	
SAMPLE RECEIPT: CONDITION/COOLER TEMP:		RELINQUISHED BY		RELINQUISHED BY		RECEIVED BY	
Signature <b>Ben Ramsey</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>	Signature <b>Robert Nicholas</b>
Printed Name <b>BEN RAMSEY</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>	Printed Name <b>Robert Nicholas</b>
Firm <b>KRO-TECH</b>	Firm <b>CAF</b>	Firm <b>CAF</b>	Firm <b>CAF</b>	Firm <b>CAF</b>	Firm <b>CAF</b>	Firm <b>CAF</b>	Firm <b>CAF</b>
Date/Time <b>7/29/09 1415</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>	Date/Time <b>7/29/09 2:15</b>

# **Appendix A**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20844  
 WACS Testsite Name: MWB32S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 8:17:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 6:36:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 6:36:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 9:47:00AM	0.0057	0.0057	UG/L	JU
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 6:36:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 6:36:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 9:47:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 6:36:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 6:36:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 6:36:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 6:36:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 6:36:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 6:36:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 6:36:00PM	3.2	2.4	UG/L	I
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 6:36:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.44	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:05:00AM	1.22	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	8/9/2009 6:05:00AM	17.5	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 6:36:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 6:36:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 6:36:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 6:36:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 6:36:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	45	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 6:36:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 6:36:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:05:00AM	1.6	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 6:36:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 6:36:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20844  
 WACS Testsite Name: MWB32S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 8:17:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 6:36:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 8:16:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 6:36:00PM	0.18	0.1	UG/L	I
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 6:36:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 8:16:00AM	116.38		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 6:36:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 5:25:00PM	231	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.2	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 6:36:00PM	0.71	0.22	UG/L	I
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:20:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 6:36:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.5	0.3	UG/L	I
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 1:14:00AM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 6:36:00PM	0.36	0.1	UG/L	I
406	pH	N	E82502	FIELD	7/29/2009 8:16:00AM	4.99		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 5:24:00PM	29.5	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 8:16:00AM	507		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 6:36:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 8:16:00AM	24.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 6:36:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:05:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 6:36:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	230	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 6:36:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 6:36:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 6:36:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 6:36:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 8:16:00AM	7.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:05:00AM	1.8	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 6:36:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 6:36:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:05:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20845  
 WACS Testsite Name: MWB321  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 8:37:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 7:03:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 7:03:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 10:09:00AM	0.0057	0.0057	UG/L	JU
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 7:03:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 7:03:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 10:09:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:03:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 7:03:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:03:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 7:03:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 7:03:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 7:03:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 7:03:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 7:03:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.22	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.2	0.2	UG/L	U
1005	BARIUM, DISSOLVED	Y	E82502	6020	8/6/2009 4:24:00AM	32.2	0.5	UG/L	
1007	Barium, Total	N	E82502	6020	8/9/2009 6:20:00AM	43.5	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 7:03:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 7:03:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 7:03:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 7:03:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 7:03:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	6.2	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 7:03:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 7:03:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.17	0.17	UG/L	U
1030	CHROMIUM, DISSOLVED	Y	E82502	6020	8/6/2009 4:24:00AM	0.8	0.8	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:20:00AM	2.7	0.8	UG/L	
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:03:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:03:00PM	0.12	0.12	UG/L	U
1035	COBALT, DISSOLVED	Y	E82502	6020	8/13/2009 4:28:00PM	0.2	0.2	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20845  
 WACS Testsite Name: MWB32I  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/29/2009 8:37:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.3	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/31/2009 7:03:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 8:36:00AM	0		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 7:03:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 7:03:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 8:36:00AM	117.21		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 7:03:00PM	2.5	2.5	UG/L	U
1046	IRON, DISSOLVED	Y	E82502	6010B	8/3/2009 6:28:00PM	252	4	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 5:29:00PM	450	4	UG/L	U
1049	LEAD, DISSOLVED	Y	E82502	6020	8/6/2009 4:24:00AM	0.2	0.2	UG/L	U
1051	Lead, Total	N	E82502	6020	8/9/2009 6:20:00AM	2.4	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 7:03:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:21:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 7:03:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 1:59:00AM	0.14	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/31/2009 7:03:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 8:36:00AM	4.93		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.08	0.08	UG/L	U
930	SODIUM, DISSOLVED	Y	E82502	6010B	8/3/2009 6:27:00PM	2.87	0.02	MG/L	
929	Sodium, Total	N	E82502	6010B	8/5/2009 5:28:00PM	3.03	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 8:36:00AM	49		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 7:03:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 8:36:00AM	21.9		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 7:03:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:20:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 7:03:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	27	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:03:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:03:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 7:03:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 7:03:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 8:36:00AM	61.6		NTU	
1085	VANADIUM, DISSOLVED	Y	E82502	6020	8/13/2009 4:28:00PM	1.2	1.2	UG/L	U
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:20:00AM	2.5	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 7:03:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 7:03:00PM	0.25	0.25	UG/L	U
1090	ZINC, DISSOLVED	Y	E82502	6020	8/6/2009 4:24:00AM	4	4	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:20:00AM	5	4	UG/L	I

Total Parameters Monitored: 86

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge  
**PARAMETER MONITORING REPORT**  
 Rule 62-701  
**WACS Report Type:**  
 Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20846  
 WACS Testsite Name: MWB32D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 9:10:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 7:31:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 7:31:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 10:31:00AM	0.0057	0.0057	UG/L	JU
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 7:31:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 10:31:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 7:31:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:31:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 7:31:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:31:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 7:31:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 7:31:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 7:31:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 7:31:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 7:31:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.081	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/9/2009 6:25:00AM	45.5	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 7:31:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 7:31:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 7:31:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 7:31:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 7:31:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	6.4	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 7:31:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 7:31:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.9	0.8	UG/L	I
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:31:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:31:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



WACS Facility ID #: 33628  
 WACS Testsite ID #: 20846  
 WACS Testsite Name: MWB32D  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/29/2009 9:10:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 7:31:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 9:09:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 7:31:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 7:31:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 9:09:00AM	117.08		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 7:31:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 6:39:00PM	626	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.5	0.2	UG/L	I
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 7:31:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:10:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 7:31:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 2:14:00AM	0.14	0.038	MG/L	I
77135	o-Xylene	N	E82502	8260B	7/31/2009 7:31:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 9:09:00AM	5.61		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 6:38:00PM	4.31	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 9:09:00AM	159		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 7:31:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 9:09:00AM	22		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 7:31:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:25:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 7:31:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	69	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:31:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:31:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 7:31:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 7:31:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 9:09:00AM	2.8		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:25:00AM	1.5	1.2	UG/L	I
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 7:31:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 7:31:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:25:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20107  
 WACS Testsite Name: MWB33S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/29/2009 9:41:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 7:58:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 7:58:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 7:58:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 10:53:00AM	0.0057	0.0057	UG/L	JU
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 7:58:00PM	0.18	0.18	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 10:53:00AM	0.007	0.007	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:58:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 7:58:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 7:58:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 7:58:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 7:58:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 7:58:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 7:58:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 7:58:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	1.9	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:40:00AM	1.16	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	8/9/2009 6:40:00AM	8.9	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 7:58:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:33:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 7:58:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 7:58:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 7:58:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 7:58:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	31	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 7:58:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 7:58:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:40:00AM	2.4	0.8	UG/L	
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:58:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:58:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20107  
 WACS Testsite Name: MWB33S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 9:41:00AM  
 Sampling Method:  
 Permitted Well Type: DE - Detection

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 7:58:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 9:40:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 7:58:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 7:58:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 9:40:00AM	114.59		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 7:58:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 6:44:00PM	272	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 7:58:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:23:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 7:58:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 2:29:00AM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 7:58:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 9:40:00AM	4.98		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 6:43:00PM	28.8	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 9:40:00AM	351		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 7:58:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 9:40:00AM	24.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 7:58:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:40:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 7:58:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	200	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 7:58:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 7:58:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 7:58:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 7:58:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 9:40:00AM	0.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:40:00AM	13.4	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 7:58:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 7:58:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:40:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP04  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 9:41:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 8:26:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 8:26:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 11:37:00AM	0.0057	0.0057	UG/L	JU
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 11:37:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 8:26:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 8:26:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 8:26:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 8:26:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 8:26:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 8:26:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 8:26:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 8:26:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 8:26:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	1.9	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:45:00AM	1.03	0.2	UG/L	
1007	Barium, Total	N	E82502	6020	8/9/2009 6:45:00AM	9.1	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 8:26:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:38:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 8:26:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 8:26:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 8:26:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 8:26:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	31	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 8:26:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 8:26:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:45:00AM	2.5	0.8	UG/L	
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 8:26:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 8:26:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.2	0.2	UG/L	I
1042	Copper, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.5	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

Page 1 of 2

Form Produced by FDEP 76 Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: DUP04  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 9:41:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 8:26:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 9:40:00AM	0.1		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 8:26:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 8:26:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 9:40:00AM	114.59		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 8:26:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 6:48:00PM	293	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 8:26:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:24:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 8:26:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 2:44:00AM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 8:26:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 9:40:00AM	4.98		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:45:00AM	1	0.8	UG/L	I
1077	Silver, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 6:47:00PM	30	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 9:40:00AM	351		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 8:26:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 9:40:00AM	24.7		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 8:26:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:45:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 8:26:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	200	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 8:26:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 8:26:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 8:26:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 8:26:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 9:40:00AM	0.6		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:45:00AM	12.9	1.2	UG/L	
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 8:26:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 8:26:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:45:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17200  
 WACS Testsite Name: MWB21S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 10:25:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 8:54:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 8:54:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 8:54:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 11:59:00AM	0.0057	0.0057	UG/L	JU
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 11:59:00AM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 8:54:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 8:54:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 8:54:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 8:54:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 8:54:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 8:54:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 8:54:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 8:54:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 8:54:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.19	0.025	MG/L	
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.22	0.2	UG/L	I
1007	Barium, Total	N	E82502	6020	8/9/2009 6:50:00AM	4.8	0.5	UG/L	
78124	Benzene	N	E82502	8260B	7/31/2009 8:54:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:43:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 8:54:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 8:54:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 8:54:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 8:54:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	5.7	0.031	MG/L	
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 8:54:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 8:54:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 8:54:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 8:54:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.6	0.3	UG/L	I
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17200  
 WACS Testsite Name: MWB21S  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 10:25:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 8:54:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 10:24:00AM	0.2		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 8:54:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 8:54:00PM	0.15	0.15	UG/L	U
82545	Groundwater Elevation	N	E82502	FIELD	7/29/2009 10:24:00AM	111.95		FT	
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 8:54:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 6:52:00PM	159	4	UG/L	
1051	Lead, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 8:54:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:26:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 8:54:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 3:43:00AM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 8:54:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 10:24:00AM	5.03		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 8:51:00PM	2.97	0.02	MG/L	
94	Specific Conductance	N	E82502	FIELD	7/29/2009 10:24:00AM	93		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 8:54:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 10:24:00AM	26.6		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 8:54:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:50:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 8:54:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	48	4.8	MG/L	
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 8:54:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 8:54:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 8:54:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 8:54:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 10:24:00AM	0.2		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:50:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 8:54:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 8:54:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:50:00AM	4	4	UG/L	U

Total Parameters Monitored: 78

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: FB  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/29/2009 10:35:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 9:21:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 9:21:00PM	0.26	0.26	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 12:21:00PM	0.0057	0.0057	UG/L	JU
77651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 12:21:00PM	0.007	0.007	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 9:21:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 9:21:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 9:21:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 9:21:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 9:21:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 9:21:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 9:21:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 9:21:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 9:21:00PM	0.59	0.59	UG/L	U
610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
1097	Antimony, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.4	0.4	UG/L	U
1002	Arsenic, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.2	0.2	UG/L	U
1007	Barium, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.5	0.5	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 9:21:00PM	0.52	0.52	UG/L	U
1012	Beryllium, Total	N	E82502	6020	8/10/2009 9:47:00PM	0.2	0.2	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 9:21:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.14	0.14	UG/L	U
1027	Cadmium, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.12	0.12	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 9:21:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 9:21:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 9:21:00PM	0.25	0.25	UG/L	U
940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	0.031	0.031	MG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 9:21:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 9:21:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.17	0.17	UG/L	U
1034	Chromium, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.8	0.8	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 9:21:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 9:21:00PM	0.12	0.12	UG/L	U
1037	Cobalt, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.2	0.2	UG/L	U
1042	Copper, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.3	0.3	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP <sup>80</sup>Validator software



WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: FB  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 10:35:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
46361	Dibromomethane	N	E82502	8260B	7/31/2009 9:21:00PM	0.12	0.12	UG/L	U
299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 10:35:00AM	5.9		MG/L	
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 9:21:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 9:21:00PM	0.15	0.15	UG/L	U
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 9:21:00PM	2.5	2.5	UG/L	U
1045	Iron, Total	N	E82502	6010B	8/5/2009 6:57:00PM	4	4	UG/L	U
1051	Lead, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.2	0.2	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 9:21:00PM	0.22	0.22	UG/L	U
71900	Mercury, Total	N	E82502	7470A	8/6/2009 3:27:00PM	0.08	0.08	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 9:21:00PM	0.72	0.72	UG/L	U
1067	Nickel, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.3	0.3	UG/L	U
620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 3:58:00AM	0.038	0.038	MG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 9:21:00PM	0.1	0.1	UG/L	U
406	pH	N	E82502	FIELD	7/29/2009 10:35:00AM	5.34		pH Units	
1147	Selenium, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.8	0.8	UG/L	U
1077	Silver, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.08	0.08	UG/L	U
929	Sodium, Total	N	E82502	6010B	8/5/2009 6:56:00PM	0.09	0.02	MG/L	I
94	Specific Conductance	N	E82502	FIELD	7/29/2009 10:35:00AM	2		UMHOS/CM	
77128	Styrene	N	E82502	8260B	7/31/2009 9:21:00PM	0.051	0.051	UG/L	U
10	Temperature, Water	N	E82502	FIELD	7/29/2009 10:35:00AM	27.2		Deg C	
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 9:21:00PM	0.22	0.22	UG/L	U
1059	Thallium, Total	N	E82502	6020	8/9/2009 6:55:00AM	0.2	0.2	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 9:21:00PM	0.52	0.52	UG/L	U
515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	4.8	4.8	MG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 9:21:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 9:21:00PM	0.12	0.12	UG/L	U
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 9:21:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 9:21:00PM	0.15	0.15	UG/L	U
82078	Turbidity	N	E82502	FIELD	7/29/2009 10:35:00AM	0.1		NTU	
1087	Vanadium, Total	N	E82502	6020	8/9/2009 6:55:00AM	1.2	1.2	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 9:21:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 9:21:00PM	0.25	0.25	UG/L	U
1092	Zinc, Total	N	E82502	6020	8/9/2009 6:55:00AM	4	4	UG/L	U

Total Parameters Monitored: 77

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
77562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.1	0.1	UG/L	U
34506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.21	0.21	UG/L	U
34516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.15	0.15	UG/L	U
34511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.21	0.21	UG/L	U
34496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.56	0.56	UG/L	U
34501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 9:49:00PM	0.16	0.16	UG/L	U
77443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 9:49:00PM	0.16	0.16	UG/L	U
49146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 9:49:00PM	0.26	0.26	UG/L	U
77651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 9:49:00PM	0.18	0.18	UG/L	U
34536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 9:49:00PM	0.17	0.17	UG/L	U
34541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 9:49:00PM	0.057	0.057	UG/L	U
34571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 9:49:00PM	0.14	0.14	UG/L	U
81595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 9:49:00PM	0.56	0.56	UG/L	U
77103	2-Hexanone	N	E82502	8260B	7/31/2009 9:49:00PM	0.36	0.36	UG/L	U
81596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 9:49:00PM	0.37	0.37	UG/L	U
81552	Acetone	N	E82502	8260B	7/31/2009 9:49:00PM	2.4	2.4	UG/L	U
34215	Acrylonitrile	N	E82502	8260B	7/31/2009 9:49:00PM	0.59	0.59	UG/L	U
78124	Benzene	N	E82502	8260B	7/31/2009 9:49:00PM	0.52	0.52	UG/L	U
73085	Bromochloromethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.14	0.14	UG/L	U
32101	Bromodichloromethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.1	0.1	UG/L	U
32104	Bromoform	N	E82502	8260B	7/31/2009 9:49:00PM	0.12	0.12	UG/L	U
34413	Bromomethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.14	0.14	UG/L	U
77041	Carbon disulfide	N	E82502	8260B	7/31/2009 9:49:00PM	0.84	0.84	UG/L	U
32102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 9:49:00PM	0.18	0.18	UG/L	U
34488	CFC-11	N	E82502	8260B	7/31/2009 9:49:00PM	0.25	0.25	UG/L	U
34301	Chlorobenzene	N	E82502	8260B	7/31/2009 9:49:00PM	0.15	0.15	UG/L	U
34311	Chloroethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.19	0.19	UG/L	U
32106	Chloroform	N	E82502	8260B	7/31/2009 9:49:00PM	0.1	0.1	UG/L	U
34418	Chloromethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.17	0.17	UG/L	U
77093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 9:49:00PM	0.12	0.12	UG/L	U
34704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 9:49:00PM	0.12	0.12	UG/L	U
32105	Dibromochloromethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.11	0.11	UG/L	U
46361	Dibromomethane	N	E82502	8260B	7/31/2009 9:49:00PM	0.12	0.12	UG/L	U
34371	Ethylbenzene	N	E82502	8260B	7/31/2009 9:49:00PM	0.1	0.1	UG/L	U
34531	Ethylene dichloride	N	E82502	8260B	7/31/2009 9:49:00PM	0.15	0.15	UG/L	U
77424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 9:49:00PM	2.5	2.5	UG/L	U
85795	m&p-Xylenes	N	E82502	8260B	7/31/2009 9:49:00PM	0.22	0.22	UG/L	U
34423	Methylene Chloride	N	E82502	8260B	7/31/2009 9:49:00PM	0.72	0.72	UG/L	U
77135	o-Xylene	N	E82502	8260B	7/31/2009 9:49:00PM	0.1	0.1	UG/L	U
77128	Styrene	N	E82502	8260B	7/31/2009 9:49:00PM	0.051	0.051	UG/L	U
34475	Tetrachloroethene	N	E82502	8260B	7/31/2009 9:49:00PM	0.22	0.22	UG/L	U
34010	Toluene	N	E82502	8260B	7/31/2009 9:49:00PM	0.52	0.52	UG/L	U
34546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 9:49:00PM	0.13	0.13	UG/L	U
34699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 9:49:00PM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/18/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank  
 Water Classification: G-II  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
49263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 9:49:00PM	1.1	1.1	UG/L	U
39180	Trichloroethene	N	E82502	8260B	7/31/2009 9:49:00PM	0.15	0.15	UG/L	U
77057	Vinyl acetate	N	E82502	8260B	7/31/2009 9:49:00PM	0.6	0.6	UG/L	U
39175	Vinyl Chloride	N	E82502	8260B	7/31/2009 9:49:00PM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

## **APPENDIX B**

Field Information Forms – Groundwater Sample Points















# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MWB27I  
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: 072309 (MM DD YY)  
 PURGE TIME: 1405 (2400 Hr Clock)  
 ELAPSED HRS: 0020 (hrs-min)  
 WATER VOL IN CASING:      (Gallons)  
 ACTUAL VOL PURGED:      (Gallons)  
 WELL VOL PURGED:      (Gallons)

*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 D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:                      C-QED Bladder Pump F-Dipper/Bottle  
 Filter Device:  (Y) or  (N)      (0.45  $\mu$ ) or      ( $\mu$ ) (circle or fill in)  
 Filter Type:      A-In-line Disposable C-Vacuum  
 B-Pressure X-Other                       
 Sample Tube Type: A A-Teflon C-PVC X-Other:                       
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 12863 (ft/msl)      Depth to Water (DTW) (from TOC): 612 (ft)  
 Groundwater Elevation (site datum, from TOC): 12251 (ft/msl)  
 Total Well Depth (from TOC): 6250 (ft)      Stick Up (from ground elevation):      (ft)  
 Casing ID: 2 (in)      Casing Material: NC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/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) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		14:15	19	5.07	60	23.1	63	03	-176
	14:18	19	5.08	60	23.3	53	03	-176	
	14:21	19	5.06	61	23.1	4.9	02	-180	
	14:24	19	5.08	60	22.9	4.9	02	-183	
	:								
	:								
	:								
	:								
	:								
	:								
	:								

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 072309      pH (std): 5.08      CONDUCTANCE (umhos/cm @ 25°C): 60      TEMP. (°C): 22.9      TURBIDITY (ntu): 4.9      DO (mg/L-ppm): 02      eH/ORP (mV): -183      Other:     

**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: S10-S      Outlook: clear, 90°F      Precipitation:  (Y) or  (N)

**FIELD COMMENTS**  
 Specific Comments (including purge/well volume calculations if required):  
Calc: 62.50 - 6.12 = 56.38 x 0.163 = 9.19 GAL  
Flow: 81 x 4 = 324 / 60 = 5.4 MIN/GAL = 0.19 gpm  
Vol: 20.00 / 5.4 = 3.70 GAL  
SAMPLE TIME: 1425

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/23/09      BEN RANGAWAN      Ben Rangawan      PRO-TECH  
 Date      Name      Signature      Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy









# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:      Sample Point: MWB12S  
 No.:      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): 072409 PURGE TIME (2400 Hr Clock): 0825 ELAPSED HRS (hrs-min):       
 WATER VOL IN CASING (Gallons):      ACTUAL VOL PURGED (Gallons):      WELL VOLS PURGED (Gallons):     

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  or   
 Purging Device: C A-Submersible Pump D-Bailer Filter Device: A or B 0.45 μ or 100 μ (circle or fill in)  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump Filter Type: A A-In-line Disposable C-Vacuum B-Pressure X-Other \_\_\_\_\_  
 X-Other: \_\_\_\_\_ C-QED Bladder Pump F-Dipper/Bottle Sample Tube Type: A A-Teflon C-PVC X-Other: \_\_\_\_\_ B-Stainless Steel D-Polypropylene

WELL DATA  
 Well Elevation (at TOC): 12463 (ft/msl) Depth to Water (DTW) (from TOC): 1072 (ft) Groundwater Elevation (site datum, from TOC): 11391 (ft/msl)  
 Total Well Depth (from TOC): 2450 (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 State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
08:35	19	5.35	181	24.3	57.6	0.5	85.2	
08:38	19	5.34	181	24.0	56.3	0.2	85.0	
08:41	19	5.34	180	24.2	55.9	0.2	72.0	
08:44	19	5.22	166	24.5	55.5	1.0	75.6	
08:47	19	5.26	171	24.7	55.3	1.0	66.1	
08:50	19	5.27	172	24.6	55.0	1.0	63.2	
08:53	19	5.29	173	24.9	54.9	1.0	60.4	
:								
:								
:								

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 072409 pH (std): 5.29 CONDUCTANCE (umhos/cm @ 25°C): 173 TEMP. (°C): 24.9 TURBIDITY (ntu): 54.9 DO (mg/L - ppm): 1.0 eH/ORP (mV): 60.4 Other: \_\_\_\_\_  
 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: SL. CLOUDY Odor: \_\_\_\_\_ Color: DK. BROWN/TAN Other: NO SHEEN  
 Weather Conditions (required daily, or as conditions change): \_\_\_\_\_ Direction/Speed: CALM Outlook: CL. CLOUDY 75°F Precipitation: Y or   
 Specific Comments (including purge/well volume calculations if required): \_\_\_\_\_

FIELD COMMENTS  
Calc: 24.50 - 10.72 = 13.78 x 0.163 = 2.259 GAL.  
Flow: 80 x 4 = 320 / 60 = 5.33 MIN/GAL = 0.19 gpm  
Vol: :  
SAMPLE TIME: 0854

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/24/09 BEN RAMJEAWAN Ben Ramjeawan PRO-TECH  
 Date Name Signature Company



# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MWB12D  
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): 07/24/09  
 PURGE TIME (2400 Hr Clock): 09:07  
 ELAPSED HRS (hrs-min): 00:20  
 WATER VOL IN CASING (Gallons): 136  
 ACTUAL VOL PURGED (Gallons): 40  
 WELL VOLS PURGED: 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  or   
 Purging Device: C A-Submersible Pump D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:                      C-OFD Bladder Pump F-Dipper/Bottle

Filter Device:  Y or  N 0.45 u or      u (circle or fill in)  
 Filter Type:      A-In-line Disposable C-Vacuum  
 B-Pressure X-Other                       
 Sample Tube Type: A A-Teflon C-PVC X-Other:                       
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 124.56 (ft/msl)      Depth to Water (DTW) (from TOC): 7.70 (ft)      Groundwater Elevation (site datum, from TOC): 116.86 (ft/msl)  
 Total Well Depth (from TOC): 112.00 (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 State/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) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:17	20 1"	6.70 1"	463 1"	24.6	1.2	0.0 -	153	
09:20	20 2"	6.70 2"	463 2"	24.6	1.4	0.0 -	154	
09:23	20 3"	6.70 3"	463 3"	24.6	1.7	0.0 -	154	
09:26	20 4"	6.70 4"	463 4"	24.6	1.7	0.0 -	154	
:								
:								
:								
:								
:								
:								

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 07/24/09  
 pH (std): 6.70  
 CONDUCTANCE (umhos/cm @ 25°C): 463  
 TEMP. (°C): 24.6  
 TURBIDITY (ntu): 1.7  
 DO (mg/L - ppm): 0.0 -  
 eH/ORP (mV): 154  
 Other:       
 Units:     

**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 GREEN  
 Weather Conditions (required daily, or as conditions change):           Direction/Speed: calm      Outlook: P. CLOUDY, 80°F      Precipitation:  Y or  N

Specific Comments (including purge/well volume calculations if required):  
ORC: 112.00 - 7.70 = 104.30 X 0.163 = 13.56 GAL.  
Flow: 75 x 4 = 300 ÷ 60 = 5.00 MIN/GAL = 0.20 gpm  
Vol: 20.00 ÷ 5.00 = 4.0 GAL.  
SAMPLE TIME: 0927  
PURGE COMPLETED AT MWB12D

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/24/09      BEN RAMJEAWAN      Ben Ramjeawan      PRO-TECH  
 Date      Name      Signature      Company



# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MWB11S  
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): 07/24/09    PURGE TIME (2400 Hr Clock): 10:30    ELAPSED HRS (hrs-min): 00:20  
 WATER VOL IN CASING (Gallons): 13    ACTUAL VOL PURGED (Gallons): 29    WELL VOLS PURGED: 22

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    D- Bailor  
 Sampling Device: C    B- Peristaltic Pump    E- Piston Pump  
 X-Other:         C- OED Bladder Pump    F- Dipper/Bottle  
 Filter Device:  Y or  N    0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Filter Type: -    A- In-line Disposable    C- Vacuum  
 B- Pressure    X- Other:       
 Sample Tube Type: A    A- Teflon    C- PVC    X- Other:       
 B- Stainless Steel    D- Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 120.81 (ft/msl)    Depth to Water (DTW) (from TOC): 11.38 (ft)    Groundwater Elevation (site datum, from TOC): 109.43 (ft/msl)  
 Total Well Depth (from TOC): 19.50 (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) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		10:40	14	381	238	25.7	BR 1.2	12	262
	10:43	14	378	237	25.1	0.6	0.5	194	
	10:46	14	378	236	24.8	0.9	0.4	208	
	10:49	14	377	237	24.7	0.1	0.3	210	
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Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 07/24/09    pH (std): 3.77    CONDUCTANCE (umhos/cm @ 25°C): 237    TEMP. (°C): 24.7    TURBIDITY (ntu): 0.1    DO (mg/L-ppm): 0.3    eH/ORP (mV): 210    Other:       
**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: SE 10-S    Outlook: clear 80°F    Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):  
**FIELD COMMENTS**  
CALC: 19.50 - 11.38 = 8.12 x 0.163 = 1.32  
Flow: 10.5 x 9 = 95.0 - 60 = 35.0 MIN/GAL = 0.14 gpm  
Vol: 20.00 / 7.00 = 2.86 GAL  
SAMPLE TIME: 10:50

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/24/09    BEN RAMJEAWAN    Ben Ramjeawan    PRO-TECH  
 Date    Name    Signature    Company



# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MWB20S  
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: 072809 0800 0020      20      40 20  
(MM DD YY) (2400 Hr Clock) (hrs min) (Gallons) (Gallons) (Gallons) (Gallons)

*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 D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:      C-QED Bladder Pump F-Dipper/Bottle  
 Filter Device:  Y or  N 0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Filter Type:      A-In-line Disposable C-Vacuum  
 B-Pressure X-Other       
 Sample Tube Type: A A-Teflon C-PVC X-Other:       
 B-Stainless Steel D-Polypropylene

WELL DATA: Well Elevation (at TOC) 12101 (ft/mst) Depth to Water (DTW) (from TOC) 768 (ft) Groundwater Elevation (site datum, from TOC) 11333 (ft/mst)  
 Total Well Depth (from TOC) 2000 (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 State/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) ( $\mu$ mhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>08:10</u>	<u>20</u>	<u>3.87</u>	<u>109</u>	<u>26.1</u>	<u>8.1</u>	<u>0.1</u>	<u>1.1</u>
	<u>08:13</u>	<u>20</u>	<u>3.87</u>	<u>109</u>	<u>26.1</u>	<u>7.1</u>	<u>0.1</u>	<u>2.5</u>	
	<u>08:16</u>	<u>20</u>	<u>3.87</u>	<u>109</u>	<u>26.2</u>	<u>5.0</u>	<u>0.1</u>	<u>3.6</u>	
	<u>08:19</u>	<u>20</u>	<u>3.87</u>	<u>110</u>	<u>26.2</u>			<u>5.1</u>	

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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) 072809 pH (std) 3.87 CONDUCTANCE ( $\mu$ mhos/cm @ 25 °C) 110 TEMP. (°C) 26.2 TURBIDITY (ntu) 5.0 DO (mg/L-ppm) 0.1 eH/ORP (mV) 5.1 Other:       
 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: CALM Outlook: CLEAR, 78°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):  
CALC: 20.00 - 7.68 = 12.32 x 0.163 = 2.01 GAL  
FLOW: 75 x 4 = 300 - 60 = 240 MIN/W/GAL = 0.20 gpm  
VOL: 20.00 - 5.00 = 15.00 GAL  
 SAMPLE TIME: 0820

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
072809 BEN RAMJEAWAN Ben Ramjeawa PRO-TECH  
 Date Name Signature Company



# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:      Sample Point: MWB7D  
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: 072809 (MM DD YY)    PURGE TIME: 0855 (2400 Hr Clock)    ELAPSED HRS: 0023 (hrs:min)    WATER VOL IN CASING: 188 (Gallons)    ACTUAL VOL PURGED: 49 (Gallons)    WELL VOLS PURGED: 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  $\mu$  or       $\mu$  (circle or fill in)  
 Purging Device:  **C**    A-Submersible Pump    D-Bailer    Filter Type:         A-In-line Disposable    C-Vacuum  
 Sampling Device:  **C**    B-Peristaltic Pump    E-Piston Pump    B-Pressure    X-Other:       
 X-Other:         C-QED Bladder Pump    F-Dipper/Bottle    A-Teflon    C-PVC    X-Other:       
 Sample Tube Type:  **A**    B-Stainless Steel    D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 12165 (ft/msl)    Depth to Water (DTW) (from TOC): 190 (ft)    Groundwater Elevation (site datum, from TOC): 11975 (ft/msl)  
 Total Well Depth (from TOC): 11700 (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) ( $\mu$ mhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:05	21	6.96	415	23.6	12	0.0	-112.5	
09:08	21	6.97	415	23.6	0.7	0.0	-112.1	
09:11	21	6.96	415	23.5	0.5	0.0	-112.6	
09:14	21	6.97	415	23.5	0.4	0.0	-112.5	
09:17	21	6.96	415	23.5	0.3	0.0	-111.8	
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Suggested range for 3 consec. readings or note Permit/State requirements:    pH: +/- 0.2    Conductance: +/- 3%    Temp: --    Turbidity: --    D.O.: +/- 10%    eH/ORP: +/- 25 mV    DTW: Stabilize

**FIELD DATA**  
 SAMPLE DATE (MM DD YY): 072809    pH (std): 6.96    CONDUCTANCE ( $\mu$ mhos/cm @ 25 °C): 415    TEMP. (°C): 23.5    TURBIDITY (ntu): 0.3    DO (mg/L-ppm): 0.0    eH/ORP (mV): -111.8    Other:     

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: NOISE    Other: NO SHEEN  
 Weather Conditions (required daily, or as conditions change):         Direction/Speed: CALM    Outlook: WOL, 78°F    Precipitation:  **Y** or  **N**

**FIELD COMMENTS**  
 Specific Comments (including purge/well volume calculations if required):  
CALC: 17.00 - 1.90 = 15.10  $\times$  0.163 = 18.176 GAL.  
FLOW: 70 x 9 = 280 / 60 = 4.67 MIN/GAL = 0.21 gpm  
VOL: 23.00 / 4.67 = 4.93 GAL.  
SAMPLE TIME: 0916  
DUPE 3 COMPLETED AT MWB7D

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
072809    BEN RAMJEWAN    Ben Ramjeawan    PRO-TECH  
 Date    Name    Signature    Company

















# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MWB3I  
 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: 07/28/09 PURGE TIME: 12:47 ELAPSED HRS: 00:20  
 WATER VOL IN CASING:      ACTUAL VOL PURGED:      WELL VOL PURGED: 04  
(MM DD YY) (2400 Hr Clock) (hrs-min) (Gallons) (Gallons) (Gallons)

*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:  or  N  
 Purging Device: C A-Submersible Pump D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:      C-QED Bladder Pump F-Dipper/Bottle  
 Filter Device: Y or  N 0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Filter Type:      A-In-line Disposable C-Vacuum  
 B-Pressure X-Other       
 Sample Tube Type: A A-Teflon C-PVC X-Other:       
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 15186 (ft/msl) Depth to Water (DTW) (from TOC): 865 (ft) Groundwater Elevation (site datum, from TOC): 14321 (ft/msl)  
 Total Well Depth (from TOC): 6200 (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 State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:57	19	4.22	46	22.8	1.4	0.6	525	
13:00	19	4.22	45	22.7	1.0	0.6	539	
13:03	19	4.23	45	23.1	0.7	0.5	556	
13:06	19	4.23	45	22.9	0.6	0.5	568	
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Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 07/28/09 pH (std): 4.23 CONDUCTANCE (umhos/cm @ 25°C): 45 TEMP. (°C): 22.9 TURBIDITY (ntu): 0.6 DO (mg/L-ppm): 0.5 eH/ORP (mV): 568 Other:       
**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 SCREEN  
 Weather Conditions (required daily, or as conditions change):      Direction/Speed: SU/0-5 Outlook: CLEAR 88°F Precipitation: Y or  N

Specific Comments (including purge/well volume calculations if required):  
CALC: 6200 - 865 = 5335 X 0.163 = 870 GAL  
FLOW: 78 X 4 = 312 - 60 = 5.2 MIN/GAL = 0.19 gpm  
VOL: 20:00 - 5:2 = 3.85 GAL  
SAMPLE TIME: 1307

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/28/09 BEN RAMJEAWAN Ben Ramjeawan PRO-DECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy





# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: MW 231 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): 07 28 09  
 PURGE TIME (2400 Hr Clock): 13:43  
 ELAPSED HRS (hrs:min): 00:20  
 WATER VOL IN CASING (Gallons): 18.1  
 ACTUAL VOL PURGED (Gallons): 4.2  
 WELL VOL PURGED (Gallons): 0.2

*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 or  N  
 Purging Device: C A-Submersible Pump D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:      C-QED Bladder Pump F-Dipper/Bottle  
 Filter Device: Y or N 0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Filter Type:      A-In-line Disposable C-Vacuum  
 B-Pressure X-Other       
 Sample Tube Type: A A-Teflon C-PVC X-Other:       
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 15015 (ft/msl) Depth to Water (DTW) (from TOC): 1790 (ft)  
 Groundwater Elevation (site datum, from TOC): 13825 (ft/msl)  
 Total Well Depth (from TOC): 12900 (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.*

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L-ppm)	eH/ORP (mV)	DTW (ft)
13:53	21 gpm	6.48	441	24.9	0.5	0.3	33.4	
13:56	21	6.47	440	24.9	0.4	0.3	38.6	
13:59	21	6.47	440	25.4	0.4	0.2	41.0	
14:02	21	6.47	440	25.3	0.3	0.2	41.9	
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Suggested range for 3 consec. readings or note Permit/State requirements:  
 pH: +/- 0.2      Conductance: +/- 3%      Temp: --      Turbidity: --      D.O.: +/- 10%      eH/ORP: +/- 25 mV      DTW: 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): 07 28 09  
 pH (std): 6.47  
 CONDUCTANCE (umhos/cm @ 25°C): 440  
 TEMP. (°C): 25.3  
 TURBIDITY (ntu): 0.3  
 DO (mg/L-ppm): 0.2  
 eH/ORP (mV): 41.9  
 Other:       
 Units:     

**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 SWEET  
 Weather Conditions (required daily, or as conditions change):      Direction/Speed: SWP-S Outlook: CLEAR 90°F Precipitation: Y or N  
 Specific Comments (including purge/well volume calculations if required):     

**FIELD COMMENTS**  
CALL: 124100 - 17.90 = 111.10 x 0.163 = 18.10 GAL  
FLOW: 72 x 4 = 288 / 60 = 4.80 MIN/GAL = 20 gpm  
VOL: 20 - 00 / 4.80 = 4.17 GAL  
SAMPLE TIME: 1403

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/28/09 BEN RANHEAN Ben Ranhean PRO-TECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: M10B34D  
 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): 07/28/09  
 PURGE TIME (2400 Hr Clock): 14:20  
 ELAPSED HRS (hrs:min): 00:20  
 WATER VOL IN CASING (Gallons): 14.9  
 ACTUAL VOL PURGED (Gallons): 3.6  
 WELL VOLS PURGED: 02

*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 D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other:      C-OED Bladder Pump F-Dipper/Bottle  
 Filter Device: Y or  0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Filter Type: - A-In-line Disposable C-Vacuum  
 B-Pressure X-Other:       
 Sample Tube Type: A A-Teflon C-PVC X-Other:       
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 1259.2 (ft/msl) Depth to Water (DTW) (from TOC): 91.2 (ft) Groundwater Elevation (site datum, from TOC): 116.80 (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 State/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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>14:30</u>	<u>1.5</u> 1 <sup>st</sup>	<u>6.65</u>	<u>517</u>	<u>25.9</u>	<u>0.5</u>	<u>0.3</u>	<u>59.9</u>
	<u>14:33</u>	<u>1.5</u> 2 <sup>nd</sup>	<u>6.65</u>	<u>517</u>	<u>26.2</u>	<u>0.3</u>	<u>0.2</u>	<u>60.4</u>	
	<u>14:36</u>	<u>1.5</u> 3 <sup>rd</sup>	<u>6.65</u>	<u>516</u>	<u>26.1</u>	<u>0.3</u>	<u>0.2</u>	<u>60.1</u>	
	<u>14:39</u>	<u>1.5</u> 4 <sup>th</sup>	<u>6.65</u>	<u>517</u>	<u>26.0</u>	<u>0.2</u>	<u>0.2</u>	<u>60.2</u>	
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Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 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): 07/28/09 pH (std): 6.65 CONDUCTANCE ( $\mu$ mhos/cm @ 25°C): 517 TEMP. (°C): 26.0 TURBIDITY (ntu): 0.2 DO (mg/L-ppm): 0.2 eH/ORP (mV): 60.2 Other:       
**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 GREEN  
 Weather Conditions (required daily, or as conditions change): Direction/Speed: W/0-5 Outlook: CLEAR 90°F Precipitation: Y or  N

Specific Comments (including purge/well volume calculations if required):  
Calc: 100.78 - 9.12 = 91.66 x 0.163 = 14.94 GAL.  
Flow: 100 x 4 = 400 / 60 = 6.67 MIN/GAL = 0.15 gpm.  
Vol: 20.00 - 6.67 = 13.33 GAL.  
SAMPLE TIME 14:20

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/28/09 BEN RAMONAU Ben Ramonau PRO-TECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:      Sample Point: MWB34I  
 No.:      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 <u>072809</u>	PURGE TIME <u>14:50</u>	ELAPSED HRS <u>00:23</u>	WATER VOL IN CASING <u>73</u>	ACTUAL VOL PURGED <u>43</u>	WELL VOLs PURGED <u>06</u>
(MM DD YY)	(2400 Hr Clock)	(hrs min)	(Gallons)	(Gallons)	(ft/msl)

*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.*

Purging and Sampling Equipment... Dedicated: <input checked="" type="checkbox"/> or <input type="checkbox"/> N		Filter Device: <input type="checkbox"/> Y or <input checked="" type="checkbox"/> N <u>0.45</u> $\mu$ or <u>    </u> $\mu$ (circle or fill in)
Purging Device: <input type="checkbox"/> C    A-Submersible Pump    D-Bailer	Filter Type: <input checked="" type="checkbox"/> -    A-In-line Disposable    C-Vacuum	
Sampling Device: <input type="checkbox"/> C    B-Peristaltic Pump    E-Piston Pump	B-Pressure    X-Other	
X-Other: <u>                                </u> C-QED Bladder Pump    F-Dipper/Bottle	Sample Tube Type: <input type="checkbox"/> A    A-Teflon    C-PVC    X-Other: <u>                </u>	
		B-Stainless Steel    D-Polypropylene

Well Elevation (at TOC) <u>12580</u> (ft/msl)	Depth to Water (DTW) (from TOC) <u>895</u> (ft)	Groundwater Elevation (site datum, from TOC) <u>11685</u> (ft/msl)
Total Well Depth (from TOC) <u>5395</u> (ft)	Stick Up (from ground elevation) <u>    </u> (ft)	Casing ID <u>2</u> (in)    Casing Material <u>PVC</u>

*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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>15:00</u>	<u>1.8</u>	<u>4.82</u>	<u>50</u>	<u>25.4</u>	<u>2.6</u>	<u>0.1</u>	<u>513</u>
	<u>15:03</u>	<u>1.8</u>	<u>4.82</u>	<u>50</u>	<u>25.5</u>	<u>1.7</u>	<u>0.1</u>	<u>537</u>	
	<u>15:06</u>	<u>1.8</u>	<u>4.81</u>	<u>50</u>	<u>25.6</u>	<u>1.6</u>	<u>0.1</u>	<u>557</u>	
	<u>15:09</u>	<u>1.8</u>	<u>4.81</u>	<u>50</u>	<u>25.5</u>	<u>1.6</u>	<u>0.1</u>	<u>57.1</u>	
	<u>15:12</u>	<u>1.8</u>	<u>4.80</u>	<u>50</u>	<u>25.7</u>	<u>1.6</u>	<u>0.1</u>	<u>59.2</u>	

Suggested range for 3 consec. readings or note Permit/State requirements:      pH: +/- 0.2      Conductance: +/- 3%      Temp: --      Turbidity: --      D.O.: +/- 10%      eH/ORP: +/- 25 mV      DTW: 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.

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE ( $\mu$ mhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L - ppm)	eH/ORP (mV)	Other: Units
<u>072809</u>	<u>4.80</u>	<u>50</u>	<u>25.7</u>	<u>1.6</u>	<u>0.1</u>	<u>59.2</u>	

**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 STEEN  
 Weather Conditions (required daily, or as conditions change):           Direction/Speed: SW 10-S      Outlook: CLEAR 90°F      Precipitation: Y or N  
 Specific Comments (including purge/well volume calculations if required):  
CALC: 53.95 - 8.95 = 45.00 x 0.163 = 7.34 GAL  
FLOW: 8.3 x 4 = 332 / 60 = 5.53 MIN/GAL = 0.18 gpm  
VOL: 23.00 - 5.53 = 17.47 GAL  
SWIPE TIME: 1513

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

07/28/09      BEN RANGELSON      Ben Rangelson      PRO-TECH  
 Date      Name      Signature      Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:   
 Sample Point: MWB345  
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: 07/28/09 (MM DD YY)   
 PURGE TIME: 15:20 (2400 Hr Clock)   
 ELAPSED HRS: 00:15 (hrs:min)   
 WATER VOL IN CASING: 15 (Gallons)   
 ACTUAL VOL PURGED: 21 (Gallons)   
 WELL VOLs PURGED: 15 (ft)

*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  $\mu$  or   $\mu$  (circle or fill in)  
 Purging Device:  C   
 A- Submersible Pump   
 D- Bailor   
 Filter Type:  -   
 A- In-line Disposable   
 C- Vacuum  
 Sampling Device:  C   
 B- Peristaltic Pump   
 E- Piston Pump   
 B- Pressure   
 X- Other \_\_\_\_\_  
 X- Other: \_\_\_\_\_   
 C- QED Bladder Pump   
 F- Dipper/Bottle   
 Sample Tube Type:  A   
 A- Teflon   
 C- PVC   
 X- Other: \_\_\_\_\_  
 B- Stainless Steel   
 D- Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 12578 (ft,msl)   
 Depth to Water (DTW) (from TOC): 943 (ft)   
 Groundwater Elevation (site datum, from TOC): 11635 (ft,msl)  
 Total Well Depth (from TOC): 1836 (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 State/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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	15:23	1.4 1"	5.74 1"	1175	26.2	1.3	0.2	1158	
	15:28	1.4 2"	5.74 2"	1184	26.0	0.6	0.2	1162	
	15:31	1.4 3"	5.74 3"	1190	26.1	0.1	0.2	1173	
	15:34	1.4 4"	5.75 4"	1194	26.2	0.1	0.2	1198	
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Suggested range for 3 consec. readings or note Permit/State requirements:    +/- 0.2    +/- 3%    --    --    +/- 10%    +/- 25 mV    Stabilize

**FIELD DATA**  
 SAMPLE DATE (MM DD YY): 07/28/09   
 pH (std): 5.75   
 CONDUCTANCE ( $\mu$ mhos/cm @ 25°C): 1194   
 TEMP. (°C): 26.2   
 TURBIDITY (ntu): 0.1   
 DO (mg/L-ppm): 0.2   
 eH/ORP (mV): 1198   
 Other: \_\_\_\_\_ Units: \_\_\_\_\_  
*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: NOISE   
 Other: NO STEEN  
 Weather Conditions (required daily, or as conditions change):   
 Direction/Speed: SW 10-S   
 Outlook: CLEAR, 90°F   
 Precipitation:  Y or  N  
 Specific Comments (including purge/well volume calculations if required): \_\_\_\_\_

**FIELD COMMENTS**  
Calc: 18.36 - 9.43 = 8.93 x 0.163 = 1.46 GAL  
Flow: 1.05 x 4 = 4.20 / 60 = 7.00 MIN/GAL = 0.14 gpm  
Vol: 15.100 - 7.0 = 8.10 GAL  
SAMPLE TIME: 15:35

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/28/09   
BEN RAMPANAW   
Ben Rampanaw   
PRO-TEAM  
 Date                      Name                      Signature                      Company

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:         
 Sample Point: MWB32S  
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: 07/29/09 (MM DD YY)     PURGE TIME: 07:57 (2400 Hr Clock)  
 ELAPSED HRS: 06:20 (hrs:min)     WATER VOL IN CASING:        (Gallons)  
 ACTUAL VOL PURGED:        (Gallons)     WELL VOLS PURGED:        (Gallons)

*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:  or  N  
 Purging Device: C     A-Submersible Pump     D-Bailer     Filter Device:  Y or  N     0.45 μ or        μ (circle or fill in)  
 Sampling Device: C     B-Peristaltic Pump     E-Piston Pump     Filter Type: —     A-In-line Disposable     C-Vacuum  
 X-Other:                                      C-OED Bladder Pump     F-Dipper/Bottle     Sample Tube Type: A     B-Pressure     X-Other:                                   
 A-Teflon     C-PVC     X-Other:                                   
 B-Stainless Steel     D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 12464 (ft/msl)     Depth to Water (DTW) (from TOC): 826 (ft)  
 Groundwater Elevation (site datum, from TOC): 11638 (ft/msl)  
 Total Well Depth (from TOC): 1990 (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 State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

STABILIZATION DATA (Optional)	Sample Time (2400 Hr Clock)	Rate/Unit <u>gpm</u>	pH (std)	Conductance (SC/EC) (μmhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>08:07</u>	<u>21</u> 1 <sup>st</sup>	<u>5.12</u> 1 <sup>st</sup>	<u>567</u>	<u>24.4</u>	<u>8.8</u>	<u>0.1</u>	<u>-70.2</u>
	<u>08:10</u>	<u>21</u> 2 <sup>nd</sup>	<u>5.07</u> 2 <sup>nd</sup>	<u>531</u>	<u>24.3</u>	<u>9.1</u>	<u>0.1</u>	<u>-71.2</u>	
	<u>08:13</u>	<u>21</u> 3 <sup>rd</sup>	<u>5.02</u> 3 <sup>rd</sup>	<u>512</u>	<u>24.3</u>	<u>7.7</u>	<u>0.1</u>	<u>-73.1</u>	
	<u>08:16</u>	<u>21</u> 4 <sup>th</sup>	<u>4.99</u> 4 <sup>th</sup>	<u>507</u>	<u>24.2</u>	<u>7.2</u>	<u>0.1</u>	<u>-77.3</u>	
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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): 072909     pH (std): 4.99     CONDUCTANCE (umhos/cm @ 25°C): 507     TEMP. (°C): 24.2     TURBIDITY (ntu): 7.2     DO (mg/L-ppm): 0.1     eH/ORP (mV): -77.3     Other:                                   
 Units:                                 

**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 GREEN  
 Weather Conditions (required daily, or as conditions change):                                      Direction/Speed: CALM     Outlook: clear 75° F     Precipitation: Y or (N)

**FIELD COMMENTS**  
 Specific Comments (including purge/well volume calculations if required):  
calc: 19.90 - 8.26 = 11.64 x 0.163 = 1.90 GAL.  
flow: 70 x 4 = 280 - 60 = 4.67 MIN/GAL = 0.21 gpm  
vol: 20.00 - 4.67 = 4.28 GAL  
SAMPLE TIME: 0817

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
072909 BEN RANJEWAN Ben Ranjevan PRE-TECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:       
 Sample Point: M03 32 I  
 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: 072909 0817 0020      93      37 04  
 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

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ "Water Vol in Tubing/Low Cell and Tubing/Low 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 u or 1.2 u (circle or fill in)  
 Purging Device: C      A-Submersible Pump      D-Bailer      Filter Type: A      A-In-line Disposable      C-Vacuum  
 Sampling Device: C      B-Peristaltic Pump      E-Piston Pump      B-Pressure      X-Other \_\_\_\_\_  
 X-Other \_\_\_\_\_      C-OED Bladder Pump      F-Dipper/Bottle      A-Teflon      C-PVC      X-Other \_\_\_\_\_  
 Sample Tube Type: A      B-Stainless Steel      D-Polypropylene

WELL DATA: Well Elevation (at TOC) 12479 (ft/msl)      Depth to Water (DTW) (from TOC) 758 (ft)      Groundwater Elevation (site datum, from TOC) 11721 (ft/msl)  
 Total Well Depth (from TOC) 6456 (ft)      Stick Up (from ground elevation)      (ft)      Casing ID 3 (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) (umhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>08:27</u>	<u>19</u> <u>gpm</u>	<u>4.92</u>	<u>49</u>	<u>21.9</u>	<u>57.8</u>	<u>0.0</u>	<u>-123.7</u>
	<u>08:30</u>	<u>19</u>	<u>4.90</u>	<u>49</u>	<u>21.9</u>	<u>60.0</u>	<u>0.0</u>	<u>-122.5</u>	
	<u>08:33</u>	<u>19</u>	<u>4.91</u>	<u>49</u>	<u>21.9</u>	<u>61.0</u>	<u>0.0</u>	<u>-125.0</u>	
	<u>08:36</u>	<u>19</u>	<u>4.93</u>	<u>49</u>	<u>21.9</u>	<u>61.6</u>	<u>0.0</u>	<u>-122.9</u>	
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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) 072909      pH (std)           CONDUCTANCE (umhos/cm @ 25 °C)           TEMP. (°C)           TURBIDITY (ntu)           DO (mg/L-ppm)           eH/ORP (mV)           Other:     

**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 GREEN  
 Weather Conditions (required daily, or as conditions change):      Direction/Speed: CALM      Outlook: SWAK, 78°F      Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):  
CALC: 64.56 - 7.58 = 56.98 x 0.163 = 9.29 GAL  
PURGE: 81 x 4 = 324 - 60 = 264 MIN/GAL = 0.19 gpm  
VOL: 20.00 / 5.4 = 3.70 GAL  
SAMPLE TIME: 0837

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/29/09      BEN RANJON      Ben Ranjion      PRO-TEAM  
 Date      Name      Signature      Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

**FIELD INFORMATION FORM**



Site Name: TRAIL RIDGE  
 Site No.: [ ][ ] [ ][ ]  
 Sample Point: M10B32D  
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: 07/29/09  
 PURGE TIME: 08:50  
 ELAPSED HRS: 00:20  
 WATER VOL IN CASING: [ ] [ ] [ ] [ ] 165 (Gallons)  
 ACTUAL VOL PURGED: [ ] [ ] [ ] 46 (Gallons)  
 WELL VOLS PURGED: [ ] [ ] [ ] 07

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-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other: \_\_\_\_\_ F-Dipper/Bottle  
 Filter Type: — A-In-line Disposable C-Vacuum  
 B-Pressure X-Other \_\_\_\_\_  
 Sample Tube Type: A A-Teflon C-PVC X-Other: \_\_\_\_\_  
 B-Stainless Steel D-Polypropylene

**WELL DATA**

Well Elevation (at TOC): 12493 (ft/msl)      Depth to Water (DTW) (from TOC): [ ] [ ] [ ] [ ] [ ] [ ] 785 (ft)  
 Groundwater Elevation (site datum, from TOC): [ ] [ ] [ ] [ ] [ ] [ ] 11708 (ft/msl)  
 Total Well Depth (from TOC): 11881 (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 State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

Sample Time (2400 Hr Clock)	Rate/Unit <u>gpm</u>	pH (std)	Conductance (SC/EC) (umhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:00	23	5.59	156	21.9	4.3	0.3	-918	
09:03	23	5.60	157	21.9	3.5	0.2	-919	
09:06	23	5.60	158	21.9	3.0	0.1	-936	
09:09	23	5.61	159	22.0	2.8	0.1	-935	
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Suggested range for 3 consec. readings or note Permit/State requirements:  
 pH: ± 0.2      Conductance: ± 3%      Temp: —      Turbidity: —      D.O.: ± 10%      eH/ORP: ± 25 mV      DTW: 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): 07/29/09  
 pH (std): 5.61  
 CONDUCTANCE (umhos/cm @ 25°C): [ ] [ ] [ ] [ ] 159  
 TEMP. (°C): [ ] [ ] [ ] [ ] 22.0  
 TURBIDITY (ntu): [ ] [ ] [ ] [ ] 2.8  
 DO (mg/L-ppm): [ ] [ ] [ ] [ ] 0.1  
 eH/ORP (mV): [ ] [ ] [ ] [ ] -935  
 Other: \_\_\_\_\_ Units: \_\_\_\_\_

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: CALM      Outlook: CLEAR, 80°F      Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

**FIELD COMMENTS**

CALC: 108.81 - 7.85 = 100.96 x 0.163 = 16.46 GAL  
FLOW: 65 x 4 = 260 - 60 = 4.33 GAL/4AL = 0.23 gpm  
VOL: 20.00 / 4.33 = 4.62 GAL  
SAMPLE TIME: 0.510

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/29/09      BEN RAMSEYAN      Ben Ramseyan      PRO TECH  
 Date      Name      Signature      Company

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:            Sample Point: MWB 33S  
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: 072909 (MM DD YY)  
 PURGE TIME: 0918 (2400 Hr Clock)  
 ELAPSED HRS: 0023 (hrs-min)  
 WATER VOL IN CASING:            (Gallons)  
 ACTUAL VOL PURGED:            (Gallons)  
 WELL VOLS PURGED:           

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Low Cell and Tubing/Low 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 D-Bailer  
 Sampling Device:  C B-Peristaltic Pump E-Piston Pump  
 X-Other: \_\_\_\_\_ F-Dipper/Bottle  
 Filter Device:  Y or  N 0.45  $\mu$  or \_\_\_\_\_  $\mu$  (circle or fill in)  
 Filter Type:  A A-In-line Disposable C-Vacuum  
 B-Pressure X-Other: \_\_\_\_\_  
 Sample Tube Type:  A A-Teflon C-PVC X-Other: \_\_\_\_\_  
 B-Stainless Steel D-Polypropylene

**WELL DATA**  
 Well Elevation (at TOC): 12590 (ft/msl) Depth to Water (DTW) (from TOC): 1031 (ft)  
 Groundwater Elevation (site datum, from TOC): 11459 (ft/msl)  
 Total Well Depth (from TOC): 2030 (ft) Stick Up (from ground elevation): \_\_\_\_\_ (ft)  
 Casing ID: 2 (in) Casing Material: IVC  
Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		<u>09:28</u>	<u>19</u>	<u>500</u>	<u>362</u>	<u>24.6</u>	<u>2.1</u>	<u>0.1</u>	<u>-83.6</u>
	<u>09:31</u>	<u>19</u>	<u>499</u>	<u>359</u>	<u>24.7</u>	<u>1.0</u>	<u>0.1</u>	<u>-84.1</u>	
	<u>09:34</u>	<u>19</u>	<u>499</u>	<u>356</u>	<u>24.7</u>	<u>0.8</u>	<u>0.1</u>	<u>-84.2</u>	
	<u>09:37</u>	<u>19</u>	<u>499</u>	<u>355</u>	<u>24.7</u>	<u>0.7</u>	<u>0.1</u>	<u>-83.5</u>	
	<u>09:40</u>	<u>19</u>	<u>498</u>	<u>351</u>	<u>24.7</u>	<u>0.6</u>	<u>0.1</u>	<u>-82.3</u>	
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Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 072909 pH (std): 4.98 CONDUCTANCE ( $\mu$ mhos/cm @ 25°C): 351 TEMP. (°C): 24.7  
 TURBIDITY (ntu): 0.6 DO (mg/L-ppm): 0.1 eH/ORP (mV): -82.3 Other: \_\_\_\_\_  
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: CALM Outlook: clear 85F Precipitation: Y or N  
 Specific Comments (including purge/well volume calculations if required): \_\_\_\_\_

**FIELD COMMENTS**  
calc: 20.30 - 10.31 = 9.99 x 0.163 = 1.63 gal  
Flow: 77 x 4 = 308 / 60 = 5.13 min/gal = 0.19 gpm  
Vol: 23.00 / 5.13 = 4.48 gal  
SAMPLE TIME: 0941  
DUPO4 COMPLETED AT MWB 33S

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
072909 BEN RANDEMAN Ben Raneyman PRO-TECH  
 Date Name Signature Company



# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:             
 Sample Point: MWB 21 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): 07 29 09  
 PURGE TIME (2400 Hr Clock): 10:05  
 ELAPSED HRS (hrs:min): 00:20  
 WATER VOL IN CASING (Gallons): 12  
 ACTUAL VOL PURGED (Gallons): 32  
 WELL VOLS PURGED: 27

*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 D-Bailer  
 Sampling Device: C B-Peristaltic Pump E-Piston Pump  
 X-Other: \_\_\_\_\_  
 Filter Device:  Y or  N 0.45  $\mu$  or \_\_\_\_\_  $\mu$  (circle or fill in)  
 Filter Type: - A-In-line Disposable C-Vacuum  
 B-Pressure X-Other \_\_\_\_\_  
 Sample Tube Type: A A-Teflon C-PVC X-Other: \_\_\_\_\_  
 B-Stainless Steel D-Polypropylene

WELL DATA  
 Well Elevation (at TOC) 12284 (ft./msl) Depth to Water (DTW) 1089 (ft) Groundwater Elevation (site datum, from TOC) 11195 (ft./msl)  
 Total Well Depth (from TOC) 1800 (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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		10:15	16	5.02	93	26.6	2.5	0.2	-97.7
	10:18	16	5.03	93	26.7	0.3	0.2	-96.9	
	10:21	16	5.02	93	26.7	0.2	0.2	-96.8	
	10:24	16	5.03	93	26.6	0.2	0.2	-95.2	

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2, Conductance +/- 3%, Temp. --, Turbidity --, D.O. +/- 10%, eH/ORP +/- 25 mV, DTW 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): 07 29 09  
 pH (std): 5.03  
 CONDUCTANCE ( $\mu$ mhos/cm @ 25°C): 93  
 TEMP. (°C): 26.6  
 TURBIDITY (ntu): 0.2  
 DO (mg/L-ppm): 0.2  
 eH/ORP (mV): -95.2  
 Other: \_\_\_\_\_ Units: \_\_\_\_\_

**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: SE 10-5 Outlook: CLEAR 88°F Precipitation:  Y or  N

Specific Comments (including purge/well volume calculations if required): \_\_\_\_\_

FIELD COMMENTS  
CALC: 18.00 - 10.89 = 7.11 x 0.163 = 1.16 GAL  
FLOW: 95 x 4 = 380 / 60 = 6.33 MIN/GAL = 0.16 gpm  
VOL: 20.00 x 6.33 = 3.16 GAL  
SAMPLE TIME: 10:25

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

07/29/09 BEN RANJEAWAN Ben Ranjeawan PRO-TECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

## FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:    Sample Point: FB

**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: 072909 (MM DD YY)  
 PURGE TIME: 10:35 (2400 Hr Clock)  
 ELAPSED HRS:    (hrs min)  
 WATER VOL IN CASING:    (Gallons)  
 ACTUAL VOL PURGED:    (Gallons)  
 WELL VOL PURGED:   

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  
 Sampling Device:  F  B-Peristaltic Pump  E-Piston Pump  
 Filter Type:  A-In-line Disposable  C-Vacuum  
 X-Other  B-Pressure  X-Other  
 X-Other  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	1st	1st	1st	1st	1st
	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd
	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd
	4th	4th	4th	4th	4th	4th	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: 072909 (MM DD YY)  
 pH (std): 3.34  
 CONDUCTANCE (µmhos/cm @ 25°C):   2    
 TEMP. (°C): 27.2  
 TURBIDITY (ntu): 0.1  
 DO (mg/L-ppm): 5.9  
 eH/ORP (mV): 808  
 Other:     
**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 GREEN  
 Weather Conditions (required daily, or as conditions change):                           Direction/Speed: SE/0-5      Outlook: CLEAR BRF      Precipitation:  Y or  N  
 Specific Comments (including purge/well volume calculations if required):                     

**FIELD COMMENTS**  
SAMPLE BOTTLES FILLED WITH DI WATER

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):  
07/29/09      BEN RAMJEAWAN      Ben Ramjeawan      PRO-TECH  
 Date      Name      Signature      Company

**PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.**

Atlanta (770) 723-9229  
 Baton Rouge (504) 293-0136  
 Jacksonville (904) 493-3177  
 Houston (281) 441-7606  
 Pittsburgh (412) 746-8823

FACILITY NAME: TRAIL RIDGE

**DEPTH TO WATER  
 MEASUREMENTS**

DATE: 07/23/2009

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB 25	7.90
MWB 2I	9.25
MWB 30S	7.95
MWB 29S	7.20
MWB 29I	5.49
MWB 29D	5.63
MWB 28S	6.53
MWB 27S	6.50
MWB 27I	6.12
MWB 27D	6.48
MWB 26S	7.01
MWB 25S	8.00
MWB 25I	5.95
MWB 25D	6.50
MWB 24S	7.10
MWB 14S	TOP OF PUMP 12.53
MWB 14D	10.50

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB 14I	10.12
MWB 23S	15.12
MWB 13S	16.80
MWB 13I	17.58
MWB 22S	12.03
MWB 12S	10.72
MWB 12I	5.30
MWB 12D	7.70
MWB 11S	11.38
MWB 11I	3.20
MWB 11I(R)	11.30
MWB 20S	7.56
MWB 7S	7.90
MWB 7I	3.90
MWB 7D	1.90
MWB 31D	18.21
MWB 3S	8.55





# WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: BEN RAMJEANIAN

Date: 7-23-09 Page 4 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations
MW-33S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DEDICATED BLADDER PUMP	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-21S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	U	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-12S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	U	<input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	SLIGHTLY CLOUDY
MW-12I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	U	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-12D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	U	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> 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: BEN RAMSEYAN

Date: 7-23-09

Page 1 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations
MW-25	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DELEGATED BLADDER Pump	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-21	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-30S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-29S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-29I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	SLIGHTLY CLOUDY
MW-29D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-27S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-27I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-27D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-13S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> 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: BEN RAMSEYAN

Date: 7-23-09

Page 2 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations
MW-13E	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DEDICATED BLADDER Pump	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-17S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-17I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-17D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-35	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-31I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-31D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-34S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-34E	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-34D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> 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: BEN RAMSEYAN

Date: 7-23-09

Page 3 of 4

WellID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations
MW-20S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DEDICATED BLADDER PUMP	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-7S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-7I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-7D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-19S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-19I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	SLIGHTLY CLOUDY
MW-19D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-32S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW-32I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	SLIGHTLY CLOUDY
MW-32D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> 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



Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HFS SCIENTIFIC MICRO TWIN INSTRUMENT # \_\_\_\_\_

PARAMETER: [check only one] \_\_\_\_\_ TFW

- 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 1.000 NTU HFS SCIENTIFIC LOT# 90504 EXP: NOV 2010
- Standard B 10.0 NTU HFS SCIENTIFIC LOT# 90534 EXP: NOV 2010
- Standard C 0.02 NTU HFS 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
09/07/23	0830	A	1000	AUTO CALIB	-	YES	CONT	BR
		B	10		-	YES	CONT	BR
		C	0.02		-	YES	CONT	BR
09/07/24	0730	A	1000	AUTO CAL	-	YES	CONT	BR
		B	10		-	YES	CONT	BR
		C	0.02		-	YES	CONT	BR
09/07/28	0730	A	1000	AUTO CAL	-	YES	CONT	BR
		B	10		-	YES	CONT	BR
		C	0.02		-	YES	CONT	BR
09/07/29	0720	A	1000	AUTO CALIB	-	YES	CONT	BR
		B	10		-	YES	CONT	BR
		C	0.02		-	YES	CONT	BR

### Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) OED PURGE SAVER INSTRUMENT # D-0026

PARAMETER: [check only one] MP20

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CI     DO     OTHER \_\_\_\_\_

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

Standard A 240 mV PINE ENVIRONMENTAL LOT# 0639 EXP: 4/2013

Standard B \_\_\_\_\_

Standard C \_\_\_\_\_

DATE (yy/mm/dd)	TIME (hr:m)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
09/09/23	0830	A	240	AUTO CALIB	-	YES	CONT	BR
09/09/24	0730	A	240	AUTO CAL	-	YES	CONT	BR
09/09/28	0730	A	240	AUTO CAL	-	YES	CONT	BR
09/09/29	0720	A	240	AUTO CALIB	-	YES	CONT	BR

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) QED PURGE SAVER INSTRUMENT # D-0026

PARAMETER: [check only one] MP20

- TEMPERATURE
- CONDUCTIVITY
- SALINITY
- pH
- ORP
- TURBIDITY
- RESIDUAL CI
- DO
- OTHER \_\_\_\_\_

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

Standard A SATURATED AIR

Standard B \_\_\_\_\_

Standard C \_\_\_\_\_

DATE (yy/mm/dd)	TIME (hh:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES/NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
09/07/23	0830	A	8.188	8.11	0.18	YES	CONT	BR
09/07/24	0730	A	8.218	8.17	0.05	YES	CONT	BR
09/07/28	0730	A	8.218	8.15	0.07	YES	CONT	BR
09/09/29	0720	A	8.128	8.10	0.03	YES	CONT	BR

DEP-SOP-001/01  
 FS 2200 Groundwater Sampling

Table FS 2200-2  
 Dissolved Oxygen Saturation

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

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

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) QCD PURGE SAVER INSTRUMENT # D-0026

PARAMETER: [check only one] MP20

- TEMPERATURE      CONDUCTIVITY      SALINITY      pH      ORP  
 TURBIDITY      RESIDUAL CI      DO      OTHER \_\_\_\_\_

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

Standard A 84 <sup>NS</sup>/cm PINE ENVIRONMENTAL EXP: 12-2009

Standard B 1413 <sup>NS</sup>/cm PINE ENVIRONMENTAL EXP: 09-2009

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
09/07/23	0830	A	84	AUTO CALIB	-	YES	CONT	BR
"	"	B	1413	"	-	YES	CONT	BR
09/07/24	0730	A	84	AUTO CAL	-	YES	CONT	BR
"	"	B	1413	"	-	YES	CONT	BR
09/07/28	0730	A	84	AUTO CALIB	-	YES	CONT	BR
"	"	B	1413	"	-	YES	CONT	BR
09/07/29	0720	A	84	AUTO CAL	-	YES	CONT	BR
"	"	B	1413	"	-	YES	CONT	BR

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) QED PURGE SAVER INSTRUMENT # D-0024

PARAMETER: [check only one] MP20

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CI     DO     OTHER \_\_\_\_\_

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

Standard A HANNA Co. 7.01 (std) Exp: 04/2013

Standard B HANNA Co. 4.01 (std) Exp: 04/2013

Standard C HANNA Co. 10.01 (std) Exp: 04/2013

DATE (yy/mm/dd)	TIME (hr:mlb)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
09/07/23	0830	A	7.01	AUTO CALIB	-	YES	CONT	BR
		B	4.01		-	YES	CONT	BR
		C	10.01		-	YES	CONT	BR
09/07/24	0730	A	7.01	AUTO CALIB	-	YES	CONT	BR
		B	4.01		-	YES	CONT	BR
		C	10.01		-	YES	CONT	BR
09/07/28	0730	A	7.01	AUTO CAL	-	YES	CONT	BR
		B	4.01		-	YES	CONT	BR
		C	10.01		-	YES	CONT	BR
09/07/29	0720	A	7.01	AUTO CALIB	-	YES	CONT	BR
		B	4.01		-	YES	CONT	BR
		C	10.01		-	YES	CONT	BR

DEP-SOP-001/01  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB 215</b>	SAMPLE ID: _____
DATE: <b>7-29-09</b>	

**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" = 0.85; 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	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily 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: MWB33S	SAMPLE ID: _____
DATE: 7-29-09	

**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)
<span style="font-size: 2em;">⊗</span> 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: <i>[Signature]</i>	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			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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)



# GROUNDWATER SAMPLING LOG

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB32D</b>	SAMPLE ID: _____ DATE: <b>7-29-09</b>

## PURGING DATA

WELL DIAMETER (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to</small> <small>feet</small>	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 <small>only fill out if applicable</small> = ( <small>feet</small> - <small>feet</small> ) X <small>gallons/foot</small> = <small>gallons</small>				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only fill out if applicable</small> = <small>gallons</small> + ( <small>gallons/foot</small> X <small>feet</small> ) + <small>gallons</small> = <small>gallons</small>				

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 (chloro 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	DUPLICATE: Y N	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION		VOLUME	SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	MATERIAL CODE		PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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 = Bailor; 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB32I</b>	SAMPLE ID: _____
DATE: <b>7-29-09</b>	

**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):
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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	DUPLICATE: Y N
Filtration Equipment Type: _____			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: 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)

Revision Date: February 1, 2004



DEP-SOP-001/01  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB20S</b>	DATE: <b>7-28-09</b>

**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./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				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					

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 Gravelly 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB 7 S</b>	SAMPLE ID: _____ DATE: <b>7-28-09</b>

**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:
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
only fill out if applicable

= ( \_\_\_\_\_ feet - \_\_\_\_\_ feet ) X \_\_\_\_\_ gallons/foot = \_\_\_\_\_ gallons

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	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
SAMPLING/PURGING APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB 70</b>	SAMPLE ID:
DATE: <b>7-28-09</b>	

**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: <i>[Signature]</i>	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	DUPLICATE:     Y     N
FIELD DECONTAMINATION:     Y     N	FIELD-FILTERED:     Y     N     FILTER SIZE:     µm	Filtration Equipment Type:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RPPP = 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB 7 I</b>	DATE: <b>7-28-09</b>

**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 (chloro 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; 8" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES: <i>[Signature]</i>	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	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing/Gravily 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB19I</b>	DATE: <b>7-28-09</b>

**PURGING DATA**

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: <input type="checkbox"/> feet to <input type="checkbox"/> feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
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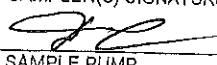
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)

TIME	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):	
	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; 8" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**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		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  
 RFP = Reverse Flow Peristaltic Pump; SM = Slaw Method (Tubing Gravitly 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB34D</b>	DATE: <b>7-28-09</b>

**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)
<div style="display: flex; justify-content: space-around; align-items: center;"> <span>⊕</span> <span>SEE ATTACHED WASTE MANAGEMENT SAMPLE</span> </div> <div style="text-align: center; margin-top: 10px;"> <span>FIELD INFORMATION FORM</span> </div>											

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	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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 = Bailor; 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB34I</b>	SAMPLE ID: _____
DATE: <b>7-28-09</b>	

**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				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					

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; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravimetry 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB 345</b>	SAMPLE ID: _____ DATE: <b>7-28-09</b>

**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)
<div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> <span>⊕</span> SEE ATTACHED WASTE MANAGEMENT SAMPLE FIELD INFORMATION FORM                 </div>											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016

**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	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily 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)

### GROUNDWATER SAMPLING LOG

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB125</b>	SAMPLE ID: _____
DATE: <b>7.24.09</b>	

#### PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to</small> _____ <small>feet</small>	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 <small>only fill out if applicable)</small> $= ( \text{feet} - \text{feet} ) \times \text{gallons/foot} = \text{gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only fill out if applicable)</small> $= \text{gallons} + ( \text{gallons/foot} \times \text{feet} ) + \text{gallons} = \text{gallons}$				

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: _____			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				DUPLICATE: Y N			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD		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 = Bailor; 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: MWB12D	SAMPLE ID:
DATE: 7.24.09	

**PURGING DATA**

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to</small> <span style="margin-left: 50px;">feet</span>	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				
= ( <span style="margin-left: 50px;">feet</span> - <span style="margin-left: 50px;">feet</span> ) X <span style="margin-left: 50px;">gallons/foot</span> = <span style="margin-left: 50px;">gallons</span>				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= <span style="margin-left: 50px;">gallons</span> + ( <span style="margin-left: 50px;">gallons/foot</span> X <span style="margin-left: 50px;">feet</span> ) + <span style="margin-left: 50px;">gallons</span>				

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. ( $\mu$ mhos/cm or $\mu$ S/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: _____ $\mu$ m		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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily 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:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE FL</b>
WELL NO: <b>MWB11S</b>	SAMPLE ID:
DATE: <b>7-24-09</b>	

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											
= ( feet - feet ) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
= 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 (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: <i>[Signature]</i>	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:	
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 APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump			
EQUIPMENT CODES: RPPP = 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: MWB121	SAMPLE ID: _____ DATE: 7.24.09

**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				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				

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	DUPLICATE: Y N	
	Filtration Equipment Type: _____		

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWBZS</b>	DATE: <b>7-23-09</b>

**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./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				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
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; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB2I</b>	DATE: <b>7-23-09</b>


**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)
	<b>⊕ SEE ATTACHED WASTE MANAGEMENT SAMPLE</b>										
	<b>FIELD INFORMATION FORM</b>										

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	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB295</b>	DATE: <b>7-23-09</b>

**PURGING DATA**

WELL DIAMETER (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to feet</small>	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 <small>only fill out if applicable</small>				
= (                      feet -                      feet) X                      gallons/foot =                      gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only fill out if applicable</small>				
=                      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:
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)
<b>⊕ SEE ATTACHED WASTE MANAGEMENT SAMPLE FIELD INFORMATION FORM</b>				

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	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravitly 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB29I</b>	DATE: <b>7-23-09</b>

**PURGING DATA**

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: <span style="font-size: small;">feet to feet</span>	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) = ( <span style="font-size: small;">feet - feet</span> ) X <span style="font-size: small;">gallons/foot</span> = <span style="font-size: small;">gallons</span>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = <span style="font-size: small;">gallons + (gallons/foot X feet) + gallons</span> = <span style="font-size: small;">gallons</span>											
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: <span style="font-size: small;">µm</span>				DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>mwb29D</b>	DATE: <b>7-23-09</b>

**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: <i>[Signature]</i>	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			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravitly 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB275</b>	DATE: <b>7-23-09</b>

**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)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 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		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 APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB27I</b>	DATE: <b>7-23-09</b>

**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 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./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	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing/Gravily 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB27D</b>	DATE: <b>7-23-09</b>

**PURGING DATA**

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to feet</small>	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
only fill out if applicable  
 = (                    feet -                    feet ) X                    gallons/foot =                    gallons

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):
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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" = 5.68  
 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 Filtration Equipment Type: _____	FILTER SIZE: _____ µm	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: 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)



# GROUNDWATER SAMPLING LOG

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB135</b>	DATE: <b>7-23-09</b>

### 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; 8" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

### 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					DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: 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: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB13T</b>	DATE: <b>7-23-09</b>

**PURGING DATA**

WELL DIAMETER (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to</small> <small>feet</small>	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 <small>only fill out if applicable</small>				
= ( <small>feet</small> - <small>feet</small> ) X <small>gallons/foot</small> = <small>gallons</small>				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only fill out if applicable</small>				
= <small>gallons</small> + ( <small>gallons/foot</small> X <small>feet</small> ) + <small>gallons</small> = <small>gallons</small>				

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./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: <small>µm</small>	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: 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)

GROUNDWATER SAMPLING LOG

SITE NAME: <b>TRAIL RIDGE</b>	SITE LOCATION: <b>JACKSONVILLE, FL</b>
WELL NO: <b>MWB225</b>	SAMPLE ID: _____ DATE: <b>7-23-09</b>

PURGING DATA

WELL DIAMETER (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH: <small>feet to feet</small>	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 <small>only fill out if applicable)</small> = ( _____ feet - _____ feet) X _____ gallons/foot = _____ gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>(only fill out if applicable)</small> = _____ 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. (umhos/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			DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: 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 C**

Laboratory Reports – Surface Water Sample Points

August 13, 2009

Service Request No: J0903704

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

**Laboratory Results for: Trail Ridge**

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 29, 2009. For your reference, these analyses have been assigned our service request number **J0903704**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

Page 1 of 40

*For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com).*

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Client:** HDR Engineering  
**Project:** Trail Ridge  
**Sample Matrix:** Water

**Service Request No.:** J0903704  
**Date Received:** 7/29/09

**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 7/29/09. 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. 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**

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 \_\_\_\_\_

8/13/09

## 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

**Service Request:** J0903704

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903704-001	SW-1	7/29/09	13:50
J0903704-002	SW-2	7/29/09	13:25
J0903704-003	Trip Blank	7/29/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903704  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-1  
 Lab Code: J0903704-001  
 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	07/30/09	07/30/09	
Vinyl Chloride	ND U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND U	1.0	0.16	7	1	07/30/09	07/30/09	
<b>Acetone</b>	<b>4.9 I</b>	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND U	1.0	0.11	0.4	1	07/30/09	07/30/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** SW-1  
**Lab Code:** J0903704-001  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	87	75-120	Acceptable
Dibromofluoromethane	87	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** SW-2  
**Lab Code:** J0903704-002  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** SW-2  
**Lab Code:** J0903704-002  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	91	71-122	Acceptable
4-Bromofluorobenzene	85	75-120	Acceptable
Dibromofluoromethane	87	82-116	Acceptable
Toluene-d8	107	88-117	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank  
**Lab Code:** J0903704-003  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Trip Blank  
**Lab Code:** J0903704-003  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	84	75-120	Acceptable
Dibromofluoromethane	89	82-116	Acceptable
Toluene-d8	103	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902475-4  
**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	07/30/09	07/30/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/30/09	07/30/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/30/09	07/30/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/30/09	07/30/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/30/09	07/30/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/30/09	07/30/09	
Acetone	ND	U	50	2.4	6300	1	07/30/09	07/30/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/30/09	07/30/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/30/09	07/30/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/30/09	07/30/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/30/09	07/30/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/30/09	07/30/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/30/09	07/30/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/30/09	07/30/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/30/09	07/30/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/30/09	07/30/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/30/09	07/30/09	
Chloroform	ND	U	1.0	0.10	70	1	07/30/09	07/30/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/30/09	07/30/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/30/09	07/30/09	
Benzene	ND	U	1.0	0.52	1	1	07/30/09	07/30/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/30/09	07/30/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/30/09	07/30/09	
Dibromomethane	ND	U	5.0	0.12	70	1	07/30/09	07/30/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/30/09	07/30/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/30/09	07/30/09	
Toluene	ND	U	1.0	0.52	40	1	07/30/09	07/30/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/30/09	07/30/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/30/09	07/30/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/30/09	07/30/09	
2-Hexanone	ND	U	25	0.36	280	1	07/30/09	07/30/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/30/09	07/30/09	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903704  
**Date Collected:** NA  
**Date Received:** NA

**Appendix I Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902475-4  
**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	07/30/09	07/30/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/30/09	07/30/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/30/09	07/30/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/30/09	07/30/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/30/09	07/30/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/30/09	07/30/09	
Styrene	ND	U	1.0	0.051	100	1	07/30/09	07/30/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/30/09	07/30/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/30/09	07/30/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/30/09	07/30/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/30/09	07/30/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/30/09	07/30/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/30/09	07/30/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/30/09	07/30/09	

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	81	75-120	Acceptable
Dibromofluoromethane	85	82-116	Acceptable
Toluene-d8	100	88-117	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** SW-1  
**Lab Code:** J0903704-001

**Service Request:** J0903704  
**Date Collected:** 7/29/09 1350  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 05:55
Arsenic, Total	6020	<b>0.31</b> I	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 05:55
Barium, Total	6020	<b>32.6</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 05:55
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 05:55
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 05:55
Chromium, Total	6020	<b>1.8</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 05:55
Cobalt, Total	6020	<b>0.3</b> I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 05:55
Copper, Total	6020	<b>0.8</b> I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 05:55
Iron, Total	6010B	<b>1790</b>	µg/L	50	4	1	8/ 3/09	8/4/09 17:54
Lead, Total	6020	<b>0.7</b> I	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 05:55
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:29
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 05:55
Selenium, Total	6020	<b>0.8</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 05:55
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 05:55
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 05:55
Vanadium, Total	6020	<b>2.3</b> I	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 05:55
Zinc, Total	6020	<b>5</b> I	µg/L	10	4	1	8/ 3/09	8/9/09 05:55

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** J0903704-002

**Service Request:** J0903704  
**Date Collected:** 7/29/09 1325  
**Date Received:** 7/29/09

**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	0.4	1	8/ 3/09	8/9/09 06:00
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 06:00
Barium, Total	6020	<b>69.3</b>	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 06:00
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:00
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 06:00
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:00
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:00
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:00
Iron, Total	6010B	<b>227</b>	µg/L	50	4	1	8/ 3/09	8/4/09 17:58
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:00
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:30
Nickel, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 06:00
Selenium, Total	6020	<b>0.9</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 06:00
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 06:00
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 06:00
Vanadium, Total	6020	<b>1.5</b> I	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 06:00
Zinc, Total	6020	<b>28</b>	µg/L	10	4	1	8/ 3/09	8/9/09 06:00

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J0903704-MB

**Service Request:** J0903704  
**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	0.4	1	8/ 3/09	8/9/09 04:40
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 04:40
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 04:40
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 04:40
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Iron, Total	6010B	ND U	µg/L	50	4	1	8/ 3/09	8/4/09 16:10
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:05
Nickel, Total	6020	1.1 I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Selenium, Total	6020	1.3 I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 04:40
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 04:40
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 04:40

**Comments:**

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

**Service Request:** J0903704  
**Date Collected:** 7/29/2009  
**Date Received:** 7/29/2009

Hardness, Total

Prep Method: METHOD  
Analysis Method: SM 2340B  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SW-1	J0903704-001	1.7	0.08	1	8/3/2009	8/4/2009	28	
SW-2	J0903704-002	1.7	0.08	1	8/3/2009	8/4/2009	7.2	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903704  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** SW-1  
**Lab Code :** J0903704-001  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	08/09/09 16:17	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	07/31/09 07:40	3.3	i
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.3	1	08/04/09 12:53	54	
Chemical Oxygen Demand	mg/L (ppm)	410.2	5	1.5	1	08/07/09 14:00	130	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	4	4	4	07/31/09 08:30	51	
Coliform, Fecal	CFU/100mL	SM 9222D	2	2	2	07/29/09 16:50	62	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 13:50	105	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 04:13	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.5	0.095	1	08/11/09 15:19	1.4	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 13:50	3.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 13:50	5.29	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	08/06/09 15:31	0.035	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	140	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	07/31/09 14:20	7.0	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 13:50	32.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 13:50	0.5	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903704  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

Sample Name : SW-2  
 Lab Code : J0903704-002  
 Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	08/09/09 16:17	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	07/31/09 07:40	U	
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.3	1	08/04/09 12:53	5.2	
Chemical Oxygen Demand	mg/L (ppm)	410.2	5	1.5	1	08/07/09 14:00	17	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	07/31/09 08:30	U	
Coliform, Fecal	CFU/100mL	SM 9222D	20	20	20	07/29/09 16:50	460	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 13:25	55	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 04:28	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.5	0.095	1	08/11/09 15:19	0.26	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 13:25	5.3	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 13:25	4.92	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	08/06/09 15:31	0.016	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	43	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	07/31/09 14:20	2.0	i
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 13:25	25.8	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 13:25	1.4	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903704  
**Date Collected :** NA  
**Date Received :** NA

Inorganic Parameters

**Sample Name :** Method Blank  
**Lab Code :** J0903704-MB  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	08/09/09 16:17	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	07/31/09 07:40	U	
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.3	1	08/04/09 12:53	U	
Chemical Oxygen Demand	mg/L (ppm)	410.2	5	1.5	1	08/07/09 14:00	U	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	07/31/09 08:30	U	
Coliform, Fecal	CFU/100mL	SM 9222D	1	1	1	07/29/09 13:20	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 00:29	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	353.2 + 351.2	0.5	0.095	1	08/11/09 15:19	U	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	08/06/09 15:31	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	U	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	07/31/09 14:20	U	



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903704

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

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
SW-1	J0903704-001	91	87	87	103
SW-2	J0903704-002	91	85	87	107
Trip Blank	J0903704-003	94	84	89	103
Method Blank	JWG0902475-4	88	81	85	100
SW-1MS	JWG0902475-1	93	84	90	103
SW-1DMS	JWG0902475-2	92	85	89	101
Lab Control Sample	JWG0902475-3	89	84	88	100

**Surrogate Recovery Control Limits (%)**

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

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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  
 Sample Matrix: Water

Service Request: J0903704  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/30/2009

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

Sample Name: SW-1  
 Lab Code: J0903704-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902475

Analyte Name	Sample Result	SW-1MS JWG0902475-1 Matrix Spike			SW-1DMS JWG0902475-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	16.2	20.0	81	15.3	20.0	77	73-139	5	30
Vinyl Chloride	ND	18.8	20.0	94	19.0	20.0	95	78-141	1	30
Bromomethane	ND	19.3	20.0	97	19.5	20.0	97	78-129	1	30
Chloroethane	ND	18.9	20.0	95	19.6	20.0	98	76-129	4	30
Trichlorofluoromethane	ND	19.8	20.0	99	20.8	20.0	104	81-133	5	30
1,1-Dichloroethene	ND	20.2	20.0	101	20.9	20.0	105	79-133	4	30
Acetone	4.9	131	100	126	134	100	129	56-139	3	30
Iodomethane (Methyl Iodide)	ND	94.8	100	95	97.2	100	97	74-134	3	30
Carbon Disulfide	ND	94.1	100	94	96.7	100	97	71-146	3	30
Methylene Chloride	ND	19.3	20.0	97	19.7	20.0	98	75-123	2	30
trans-1,2-Dichloroethene	ND	20.6	20.0	103	20.7	20.0	103	76-125	0	30
Acrylonitrile	ND	121	100	121	120	100	120	68-131	1	30
1,1-Dichloroethane	ND	20.3	20.0	102	20.7	20.0	103	78-125	2	30
Vinyl Acetate	ND	104	100	104	107	100	107	43-163	3	30
cis-1,2-Dichloroethene	ND	19.9	20.0	99	20.6	20.0	103	75-127	3	30
2-Butanone (MEK)	ND	115	100	115	110	100	110	63-134	4	30
Bromochloromethane	ND	20.4	20.0	102	20.8	20.0	104	80-124	2	30
Chloroform	ND	20.0	20.0	100	20.5	20.0	103	81-124	2	30
1,1,1-Trichloroethane (TCA)	ND	18.3	20.0	91	19.2	20.0	96	76-130	5	30
Carbon Tetrachloride	ND	16.6	20.0	83	18.2	20.0	91	76-131	9	30
Benzene	ND	19.9	20.0	100	20.5	20.0	102	78-123	3	30
1,2-Dichloroethane (EDC)	ND	19.8	20.0	99	20.1	20.0	101	74-126	1	30
Trichloroethene (TCE)	ND	20.0	20.0	100	20.3	20.0	101	77-128	1	30
1,2-Dichloropropane	ND	20.1	20.0	100	20.3	20.0	101	77-122	1	30
Dibromomethane	ND	21.6	20.0	108	21.1	20.0	105	78-124	3	30
Bromodichloromethane	ND	19.0	20.0	95	19.5	20.0	97	79-125	3	30
cis-1,3-Dichloropropene	ND	19.7	20.0	99	20.2	20.0	101	77-117	2	30
4-Methyl-2-pentanone (MIBK)	ND	120	100	120	119	100	119	65-138	1	30
Toluene	ND	21.1	20.0	105	21.2	20.0	106	86-119	1	30
trans-1,3-Dichloropropene	ND	19.2	20.0	96	19.9	20.0	100	75-120	4	30
1,1,2-Trichloroethane	ND	22.5	20.0	112	22.2	20.0	111	77-124	1	30
Tetrachloroethene (PCE)	ND	20.5	20.0	102	20.9	20.0	104	79-123	2	30
2-Hexanone	ND	123	100	123	123	100	123	63-142	0	30
Dibromochloromethane	ND	19.4	20.0	97	19.8	20.0	99	78-124	2	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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J0903704  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/30/2009

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

Sample Name: SW-1  
 Lab Code: J0903704-001  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902475

Analyte Name	Sample Result	SW-1MS JWG0902475-1 Matrix Spike			SW-1DMS JWG0902475-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	22.4	20.0	112	22.0	20.0	110	81-119	2	30
Chlorobenzene	ND	20.5	20.0	102	20.4	20.0	102	81-120	0	30
1,1,1,2-Tetrachloroethane	ND	18.6	20.0	93	18.9	20.0	95	82-118	2	30
Ethylbenzene	ND	20.5	20.0	102	20.8	20.0	104	87-122	2	30
m,p-Xylenes	ND	39.7	40.0	99	39.8	40.0	99	82-120	0	30
o-Xylene	ND	19.9	20.0	100	20.2	20.0	101	85-119	1	30
Styrene	ND	20.1	20.0	101	20.4	20.0	102	84-126	1	30
Bromoform	ND	16.7	20.0	84	17.2	20.0	86	70-129	3	30
1,1,2,2-Tetrachloroethane	ND	22.4	20.0	112	22.1	20.0	110	72-127	1	30
1,2,3-Trichloropropane	ND	23.4	20.0	117	21.6	20.0	108	76-123	8	30
1,4-Dichlorobenzene	ND	19.4	20.0	97	19.0	20.0	95	75-115	2	30
trans-1,4-Dichloro-2-butene	ND	22.3	20.0	112	23.0	20.0	115	22-135	3	30
1,2-Dichlorobenzene	ND	19.6	20.0	98	20.1	20.0	100	77-116	2	30
1,2-Dibromo-3-chloropropane (DBCP)	ND	19.1	20.0	96	18.8	20.0	94	54-120	2	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903704  
**Date Extracted:** 07/30/2009  
**Date Analyzed:** 07/30/2009

**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:** JWG0902475

Lab Control Sample  
JWG0902475-3

**Lab Control Spike**

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	16.8	20.0	84	67-135
Vinyl Chloride	17.4	20.0	87	78-132
Bromomethane	17.7	20.0	89	79-130
Chloroethane	16.9	20.0	85	74-126
Trichlorofluoromethane	17.2	20.0	86	74-134
1,1-Dichloroethene	17.6	20.0	88	78-130
Acetone	116	100	116	67-133
Iodomethane (Methyl Iodide)	90.1	100	90	68-134
Carbon Disulfide	87.7	100	88	76-138
Methylene Chloride	18.5	20.0	93	72-124
trans-1,2-Dichloroethene	18.2	20.0	91	77-124
Acrylonitrile	116	100	116	77-127
1,1-Dichloroethane	18.3	20.0	91	80-128
Vinyl Acetate	112	100	112	61-148
cis-1,2-Dichloroethene	18.7	20.0	94	80-126
2-Butanone (MEK)	106	100	106	73-127
Bromochloromethane	19.8	20.0	99	79-129
Chloroform	18.6	20.0	93	83-124
1,1,1-Trichloroethane (TCA)	17.3	20.0	87	79-124
Carbon Tetrachloride	16.8	20.0	84	81-125
Benzene	18.1	20.0	91	79-119
1,2-Dichloroethane (EDC)	21.2	20.0	106	80-124
Trichloroethene (TCE)	17.1	20.0	86	76-124
1,2-Dichloropropane	19.3	20.0	96	79-123
Dibromomethane	20.4	20.0	102	83-123
Bromodichloromethane	19.0	20.0	95	81-123
cis-1,3-Dichloropropene	20.0	20.0	100	86-123
4-Methyl-2-pentanone (MIBK)	121	100	121	72-136
Toluene	18.7	20.0	94	86-117
trans-1,3-Dichloropropene	20.7	20.0	103	83-124
1,1,2-Trichloroethane	21.5	20.0	107	86-114
Tetrachloroethene (PCE)	17.5	20.0	87	80-121
2-Hexanone	125	100	125	71-138
Dibromochloromethane	20.5	20.0	103	82-121
1,2-Dibromoethane (EDB)	21.4	20.0	107	88-117
Chlorobenzene	18.4	20.0	92	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903704  
**Date Extracted:** 07/30/2009  
**Date Analyzed:** 07/30/2009

**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:** JWG0902475

Lab Control Sample  
 JWG0902475-3

**Lab Control Spike**

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.1	20.0	96	85-117
Ethylbenzene	18.4	20.0	92	90-118
m,p-Xylenes	35.3	40.0	88	86-121
o-Xylene	18.1	20.0	91	89-119
Styrene	18.8	20.0	94	89-122
Bromoform	18.4	20.0	92	68-129
1,1,2,2-Tetrachloroethane	22.1	20.0	110	83-120
1,2,3-Trichloropropane	21.8	20.0	109	83-123
1,4-Dichlorobenzene	17.9	20.0	89	83-113
trans-1,4-Dichloro-2-butene	24.1	20.0	121	53-143
1,2-Dichlorobenzene	19.1	20.0	95	84-115
1,2-Dibromo-3-chloropropane (DBCP)	22.0	20.0	110	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  
Sample Matrix: Water

Service Request: J0903704  
Date Analyzed: 8/6/09

**Lab Control Sample Summary**  
**Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)**

Units: µg/L

Basis: NA

Analyte Name	Method	Lab Control Sample J0903704-LCS1			Duplicate Lab Control Sample J0903704-DLCS1			% Rec Limits	RPD	RPD Limit
		Result	Expected	% Rec	Result	Expected	% Rec			
Mercury, Total	7470A	5.26	5.00	105	4.89	5.00	98	80 - 120	7	20

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903704  
**Date Analyzed:** 8/ 4/09 -  
 8/ 9/09

**Lab Control Sample Summary  
 Inorganic Parameters**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903704-LCS2			% Rec Limits
		Result	Expected	% Rec	
Antimony, Total	6020	<b>51.0</b>	50.0	102	80 - 120
Arsenic, Total	6020	<b>50.8</b>	50.0	102	80 - 120
Barium, Total	6020	<b>51.8</b>	50.0	104	80 - 120
Beryllium, Total	6020	<b>48.9</b>	50.0	98	80 - 120
Cadmium, Total	6020	<b>51.1</b>	50.0	102	80 - 120
Chromium, Total	6020	<b>50.6</b>	50.0	101	80 - 120
Cobalt, Total	6020	<b>51.2</b>	50.0	102	80 - 120
Copper, Total	6020	<b>50.5</b>	50.0	101	80 - 120
Iron, Total	6010B	<b>1950</b>	2000	98	80 - 120
Lead, Total	6020	<b>52.0</b>	50.0	104	80 - 120
Nickel, Total	6020	<b>52.0</b>	50.0	104	80 - 120
Selenium, Total	6020	<b>48.6</b>	50.0	97	80 - 120
Silver, Total	6020	<b>51.1</b>	50.0	102	80 - 120
Thallium, Total	6020	<b>51.6</b>	50.0	103	80 - 120
Vanadium, Total	6020	<b>52.2</b>	50.0	104	80 - 120
Zinc, Total	6020	<b>95.6</b>	100	96	80 - 120

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903704  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09  
**Date Extracted :** 08/04/09  
**Date Analyzed :** 07/31-08/06/09

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** SW-1  
**Lab Code :** J0903704-001DUP  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
					Sample Result	Average		
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	4	51	49	50	4	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.035	0.030	0.0325	15	



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903704  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09  
**Date Extracted :** 08/03/09  
**Date Analyzed :** 08/06/09

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** SW-1  
**Lab Code :** J0903704-001MS  
**Test Notes :**

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.500	0.035	0.517	96	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903704  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 07/30-08/07/09

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** J0903704-LCS  
**Test Notes :**

**Basis :** NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	198	195	98	85-115	
Carbon, Total Organic	mg/L (ppm)	415.1	50	52.2	104	90-110	
Chemical Oxygen Demand	mg/L (ppm)	410.2	85.8	84.0	98	85-115	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.12	102	90-110	
Phosphorus, Total	mg/L (ppm)	365.1	0.500	0.507	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	293	98	85-115	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	80	78.0	98	85-115	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: HDR Service Request # 70903704  
 Project: TRAIL Ridge  
 Cooler received on 7/29/09 and opened on 7/29/09 by 880  
 COURIER:  CAS     UPS     FEDEX     DHL     CLIENT    Tracking # \_\_\_\_\_

- |    |   |                                      |                                     |                                      |
|----|---|--------------------------------------|-------------------------------------|--------------------------------------|
| 1  | Were custody seals on outside of cooler?  | Yes                                  | <input checked="" type="radio"/> No | N/A                                  |
| 2  | Were seals intact, signed and dated?  | Yes                                  | No                                  | <input checked="" type="radio"/> N/A |
| 3  | Were custody papers properly filled out?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)                       |                                      |                                     | <u>3.0</u>                           |
| 5  | Correct Temperature?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 6  | Were Ice or Ice Packs present   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?                             | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?                       | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 9  | Did all bottle labels and tags agree with custody papers?                                 | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 10 | Were the correct bottles used for the tests indicated?                                    | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 11 | Were all of the preserved bottles received with the appropriate preservative?             | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
|    | <u>HNO3 pH&lt;2</u> <u>H2SO4 pH&lt;2</u> ZnAc2/NaOH pH>9    NaOH pH>12 <u>HCl pH&lt;2</u> |                                      |                                     |                                      |
|    | <small>Preservative additions noted below</small>   |                                      |                                     |                                      |
| 12 | Were all samples received within analysis holding times?                                  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below                 | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 14 | Where did the bottles originate?  | <input checked="" type="radio"/> CAS | Client                              |                                      |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:  
TRIPBLANK NOT aw COC

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date: 8/1

SR #: J 0903704

Date:

7/29/19

Initials:

CRS

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

Sample #	Container	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					
		40ml	40ml	40ml	125ml	125ml	125ml	125ml	250ml	250ml	250ml	250ml	250ml	250ml	250ml	500ml	500ml	500ml	500ml	1L	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100ml	Misc.				
		G	G	G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	G	G	G	P	Misc.					
		N/A	HCl	Sodium Thiosulfate	H2SO4	HCl	H2SO4	HNO3	ZnAcetate NaOH	ZnAcetate NaOH	HNO3	HNO3	HNO3	HNO3	H2SO4	HNO3	HNO3	HNO3	HNO3	HNO3	HCl	HCl	H2SO4	H2SO4	N/A	N/A	N/A	N/A	N/A	Sodium Thiosulfate	N/A	N/A				
-001																																				
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-038																																				
-039																																				
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# **Appendix A**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17209  
 WACS Testsite Name: SW-1  
 Water Classification: SW-IIIIF  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 1:50:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.1	0.1	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.21	0.21	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.15	0.15	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.21	0.21	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.56	0.56	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 10:39:00AM	0.16	0.16	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 10:39:00AM	0.16	0.16	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 10:39:00AM	0.26	0.26	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 10:39:00AM	0.18	0.18	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:39:00AM	0.17	0.17	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 10:39:00AM	0.057	0.057	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 10:39:00AM	0.14	0.14	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 10:39:00AM	0.56	0.56	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/30/2009 10:39:00AM	0.36	0.36	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 10:39:00AM	0.37	0.37	UG/L	U
081552	Acetone	N	E82502	8260B	7/30/2009 10:39:00AM	4.9	2.4	UG/L	I
034215	Acrylonitrile	N	E82502	8260B	7/30/2009 10:39:00AM	0.59	0.59	UG/L	U
000612	Ammonia, Unionized	N	E82502	FDEP	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
001097	Antimony, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.4	0.4	UG/L	U
001002	Arsenic, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.31	0.2	UG/L	I
000310	B.O.D.	N	E82502	405.1	7/31/2009 7:40:00AM	3.3	0.86	MG/L	I
001007	Barium, Total	N	E82502	6020	8/9/2009 5:55:00AM	32.6	0.5	UG/L	
078124	Benzene	N	E82502	8260B	7/30/2009 10:39:00AM	0.52	0.52	UG/L	U
001012	Beryllium, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.2	0.2	UG/L	U
073085	Bromochloromethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.14	0.14	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.1	0.1	UG/L	U
032104	Bromoform	N	E82502	8260B	7/30/2009 10:39:00AM	0.12	0.12	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.14	0.14	UG/L	U
001027	Cadmium, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.12	0.12	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/30/2009 10:39:00AM	0.84	0.84	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 10:39:00AM	0.18	0.18	UG/L	U
034488	CFC-11	N	E82502	8260B	7/30/2009 10:39:00AM	0.25	0.25	UG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/30/2009 10:39:00AM	0.15	0.15	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.19	0.19	UG/L	U
032106	Chloroform	N	E82502	8260B	7/30/2009 10:39:00AM	0.1	0.1	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.17	0.17	UG/L	U
032238	Chlorophyll a	N	E82502	SM10200H	7/31/2009 8:30:00AM	51	4	MG/M3	
001034	Chromium, Total	N	E82502	6020	8/9/2009 5:55:00AM	1.8	0.8	UG/L	I
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:39:00AM	0.12	0.12	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:39:00AM	0.12	0.12	UG/L	U
001037	Cobalt, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.3	0.2	UG/L	I
000340	COD	N	E82502	410.2	8/7/2009 2:00:00PM	130	1.5	MG/L	
001042	Copper, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.8	0.3	UG/L	I
032105	Dibromochloromethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17209  
 WACS Testsite Name: SW-1  
 Water Classification: SW-IIIIF  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 1:50:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
046361	Dibromomethane	N	E82502	8260B	7/30/2009 10:39:00AM	0.12	0.12	UG/L	U
000299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 1:50:00PM	3.2		MG/L	
034371	Ethylbenzene	N	E82502	8260B	7/30/2009 10:39:00AM	0.1	0.1	UG/L	U
034531	Ethylene dichloride	N	E82502	8260B	7/30/2009 10:39:00AM	0.15	0.15	UG/L	U
031616	Fecal Coliform	N	E82502	SM 9222D	7/29/2009 4:50:00PM	62	2	CFU/100mL	
000900	Hardness (as CaCO3)	N	E82502	SM 2340B	8/4/2009 12:00:00AM	28	0.08	MG/L	
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 10:39:00AM	2.5	2.5	UG/L	U
001045	Iron, Total	N	E82502	6010B	8/4/2009 5:54:00PM	1790	4	UG/L	
001051	Lead, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.7	0.2	UG/L	I
085795	m&p-Xylenes	N	E82502	8260B	7/30/2009 10:39:00AM	0.22	0.22	UG/L	U
071900	Mercury, Total	N	E82502	7470A	8/6/2009 3:29:00PM	0.08	0.08	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/30/2009 10:39:00AM	0.72	0.72	UG/L	U
001067	Nickel, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.3	0.3	UG/L	U
000620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 4:13:00AM	0.038	0.038	MG/L	U
000600	Nitrogen, Total as N	N	E82502	E351.2+353.2	8/11/2009 3:19:00PM	1.4	0.095	MG/L	
000680	Organic Carbon, Total	N	E82502	415.1	8/4/2009 12:53:00PM	54	0.3	MG/L	
077135	o-Xylene	N	E82502	8260B	7/30/2009 10:39:00AM	0.1	0.1	UG/L	U
000406	pH	N	E82502	FIELD	7/29/2009 1:50:00PM	5.29		pH Units	
000665	Phosphorus, Total	N	E82502	365.1	8/6/2009 3:31:00PM	0.035	0.005	MG/L	
001147	Selenium, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.8	0.8	UG/L	I
001077	Silver, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.08	0.08	UG/L	U
000094	Specific Conductance	N	E82502	FIELD	7/29/2009 1:50:00PM	105		UMHOS/CM	
077128	Styrene	N	E82502	8260B	7/30/2009 10:39:00AM	0.051	0.051	UG/L	U
000530	T.S.S.	N	E82502	160.2	7/31/2009 2:20:00PM	7	1.4	MG/L	
000010	Temperature, Water	N	E82502	FIELD	7/29/2009 1:50:00PM	32.8		Deg C	
034475	Tetrachloroethene	N	E82502	8260B	7/30/2009 10:39:00AM	0.22	0.22	UG/L	U
001059	Thallium, Total	N	E82502	6020	8/9/2009 5:55:00AM	0.2	0.2	UG/L	U
034010	Toluene	N	E82502	8260B	7/30/2009 10:39:00AM	0.52	0.52	UG/L	U
000515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	140	4.8	MG/L	
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 10:39:00AM	0.13	0.13	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 10:39:00AM	0.12	0.12	UG/L	U
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 10:39:00AM	1.1	1.1	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/30/2009 10:39:00AM	0.15	0.15	UG/L	U
082078	Turbidity	N	E82502	FIELD	7/29/2009 1:50:00PM	0.5		NTU	
001087	Vanadium, Total	N	E82502	6020	8/9/2009 5:55:00AM	2.3	1.2	UG/L	I
077057	Vinyl acetate	N	E82502	8260B	7/30/2009 10:39:00AM	0.6	0.6	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/30/2009 10:39:00AM	0.25	0.25	UG/L	U
001092	Zinc, Total	N	E82502	6020	8/9/2009 5:55:00AM	5	4	UG/L	I

Total Parameters Monitored: 82

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17210  
 WACS Testsite Name: SW-2  
 Water Classification: SW-IIIIF  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 1:25:00PM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.1	0.1	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.21	0.21	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.15	0.15	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.21	0.21	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.56	0.56	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:06:00AM	0.16	0.16	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:06:00AM	0.16	0.16	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:06:00AM	0.26	0.26	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:06:00AM	0.18	0.18	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:06:00AM	0.17	0.17	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:06:00AM	0.057	0.057	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:06:00AM	0.14	0.14	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:06:00AM	0.56	0.56	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/30/2009 11:06:00AM	0.36	0.36	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:06:00AM	0.37	0.37	UG/L	U
081552	Acetone	N	E82502	8260B	7/30/2009 11:06:00AM	2.4	2.4	UG/L	U
034215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:06:00AM	0.59	0.59	UG/L	U
000612	Ammonia, Unionized	N	E82502	FDEP	8/9/2009 4:17:00PM	0.025	0.025	MG/L	U
001097	Antimony, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.4	0.4	UG/L	U
001002	Arsenic, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.2	0.2	UG/L	U
000310	B.O.D.	N	E82502	405.1	7/31/2009 7:40:00AM	0.86	0.86	MG/L	U
001007	Barium, Total	N	E82502	6020	8/9/2009 6:00:00AM	69.3	0.5	UG/L	U
078124	Benzene	N	E82502	8260B	7/30/2009 11:06:00AM	0.52	0.52	UG/L	U
001012	Beryllium, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.2	0.2	UG/L	U
073085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.14	0.14	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.1	0.1	UG/L	U
032104	Bromoform	N	E82502	8260B	7/30/2009 11:06:00AM	0.12	0.12	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.14	0.14	UG/L	U
001027	Cadmium, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.12	0.12	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:06:00AM	0.84	0.84	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:06:00AM	0.18	0.18	UG/L	U
034488	CFC-11	N	E82502	8260B	7/30/2009 11:06:00AM	0.25	0.25	UG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:06:00AM	0.15	0.15	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.19	0.19	UG/L	U
032106	Chloroform	N	E82502	8260B	7/30/2009 11:06:00AM	0.1	0.1	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.17	0.17	UG/L	U
032238	Chlorophyll a	N	E82502	SM10200H	7/31/2009 8:30:00AM	1	1	MG/M3	U
001034	Chromium, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.8	0.8	UG/L	U
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:06:00AM	0.12	0.12	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:06:00AM	0.12	0.12	UG/L	U
001037	Cobalt, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.2	0.2	UG/L	U
000340	COD	N	E82502	410.2	8/7/2009 2:00:00PM	17	1.5	MG/L	U
001042	Copper, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.3	0.3	UG/L	U
032105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.11	0.11	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/13/2009

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Form Produced by FDEP-Validator software

WACS Facility ID #: 33628  
WACS Testsite ID #: 17210  
WACS Testsite Name: SW-2  
Water Classification: SW-IIIF  
(i.e.: LC - Leachate, G-II, SW-IIIF)

Sample Date/Time: 7/29/2009 1:25:00PM  
Sampling Method:  
Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
046361	Dibromomethane	N	E82502	8260B	7/30/2009 11:06:00AM	0.12	0.12	UG/L	U
000299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 1:25:00PM	5.3		MG/L	
034371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:06:00AM	0.1	0.1	UG/L	U
034531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:06:00AM	0.15	0.15	UG/L	U
031616	Fecal Coliform	N	E82502	SM 9222D	7/29/2009 4:50:00PM	460	20	CFU/100mL	
000900	Hardness (as CaCO3)	N	E82502	SM 2340B	8/4/2009 12:00:00AM	7.2	0.08	MG/L	
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:06:00AM	2.5	2.5	UG/L	U
001045	Iron, Total	N	E82502	6010B	8/4/2009 5:58:00PM	227	4	UG/L	
001051	Lead, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.2	0.2	UG/L	U
085795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:06:00AM	0.22	0.22	UG/L	U
071900	Mercury, Total	N	E82502	7470A	8/6/2009 3:30:00PM	0.08	0.08	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:06:00AM	0.72	0.72	UG/L	U
001067	Nickel, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.3	0.3	UG/L	U
000620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 4:28:00AM	0.038	0.038	MG/L	U
000600	Nitrogen, Total as N	N	E82502	E351.2+353.2	8/11/2009 3:19:00PM	0.26	0.095	MG/L	
000680	Organic Carbon, Total	N	E82502	415.1	8/4/2009 12:53:00PM	5.2	0.3	MG/L	
077135	o-Xylene	N	E82502	8260B	7/30/2009 11:06:00AM	0.1	0.1	UG/L	U
000406	pH	N	E82502	FIELD	7/29/2009 1:25:00PM	4.92		pH Units	
000665	Phosphorus, Total	N	E82502	365.1	8/6/2009 3:31:00PM	0.016	0.005	MG/L	
001147	Selenium, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.9	0.8	UG/L	I
001077	Silver, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.08	0.08	UG/L	U
000094	Specific Conductance	N	E82502	FIELD	7/29/2009 1:25:00PM	55		UMHOS/CM	
077128	Styrene	N	E82502	8260B	7/30/2009 11:06:00AM	0.051	0.051	UG/L	U
000530	T.S.S.	N	E82502	160.2	7/31/2009 2:20:00PM	2	1.4	MG/L	I
000010	Temperature, Water	N	E82502	FIELD	7/29/2009 1:25:00PM	25.8		Deg C	
034475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:06:00AM	0.22	0.22	UG/L	U
001059	Thallium, Total	N	E82502	6020	8/9/2009 6:00:00AM	0.2	0.2	UG/L	U
034010	Toluene	N	E82502	8260B	7/30/2009 11:06:00AM	0.52	0.52	UG/L	U
000515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	43	4.8	MG/L	
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:06:00AM	0.13	0.13	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:06:00AM	0.12	0.12	UG/L	U
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:06:00AM	1.1	1.1	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/30/2009 11:06:00AM	0.15	0.15	UG/L	U
082078	Turbidity	N	E82502	FIELD	7/29/2009 1:25:00PM	1.4		NTU	
001087	Vanadium, Total	N	E82502	6020	8/9/2009 6:00:00AM	1.5	1.2	UG/L	I
077057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:06:00AM	0.6	0.6	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:06:00AM	0.25	0.25	UG/L	U
001092	Zinc, Total	N	E82502	6020	8/9/2009 6:00:00AM	28	4	UG/L	

Total Parameters Monitored: 82

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628

Sample Date/Time: 7/29/2009 12:00:00AM

WACS Testsite ID #:

Sampling Method:

WACS Testsite Name: Trip Blank

Permitted Well Type: Not Provided

Water Classification: SW-IIIF

(i.e.: LC - Leachate, G-II, SW-IIIF)

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.1	0.1	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.21	0.21	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.15	0.15	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.21	0.21	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.56	0.56	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/30/2009 11:33:00AM	0.16	0.16	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/30/2009 11:33:00AM	0.16	0.16	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/30/2009 11:33:00AM	0.26	0.26	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/30/2009 11:33:00AM	0.18	0.18	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:33:00AM	0.17	0.17	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/30/2009 11:33:00AM	0.057	0.057	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/30/2009 11:33:00AM	0.14	0.14	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/30/2009 11:33:00AM	0.56	0.56	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/30/2009 11:33:00AM	0.36	0.36	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/30/2009 11:33:00AM	0.37	0.37	UG/L	U
081552	Acetone	N	E82502	8260B	7/30/2009 11:33:00AM	2.4	2.4	UG/L	U
034215	Acrylonitrile	N	E82502	8260B	7/30/2009 11:33:00AM	0.59	0.59	UG/L	U
078124	Benzene	N	E82502	8260B	7/30/2009 11:33:00AM	0.52	0.52	UG/L	U
073085	Bromochloromethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.14	0.14	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.1	0.1	UG/L	U
032104	Bromoform	N	E82502	8260B	7/30/2009 11:33:00AM	0.12	0.12	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.14	0.14	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/30/2009 11:33:00AM	0.84	0.84	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/30/2009 11:33:00AM	0.18	0.18	UG/L	U
034488	CFC-11	N	E82502	8260B	7/30/2009 11:33:00AM	0.25	0.25	UG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/30/2009 11:33:00AM	0.15	0.15	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.19	0.19	UG/L	U
032106	Chloroform	N	E82502	8260B	7/30/2009 11:33:00AM	0.1	0.1	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.17	0.17	UG/L	U
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:33:00AM	0.12	0.12	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:33:00AM	0.12	0.12	UG/L	U
032105	Dibromochloromethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.11	0.11	UG/L	U
046361	Dibromomethane	N	E82502	8260B	7/30/2009 11:33:00AM	0.12	0.12	UG/L	U
034371	Ethylbenzene	N	E82502	8260B	7/30/2009 11:33:00AM	0.1	0.1	UG/L	U
034531	Ethylene dichloride	N	E82502	8260B	7/30/2009 11:33:00AM	0.15	0.15	UG/L	U
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/30/2009 11:33:00AM	2.5	2.5	UG/L	U
085795	m&p-Xylenes	N	E82502	8260B	7/30/2009 11:33:00AM	0.22	0.22	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/30/2009 11:33:00AM	0.72	0.72	UG/L	U
077135	o-Xylene	N	E82502	8260B	7/30/2009 11:33:00AM	0.1	0.1	UG/L	U
077128	Styrene	N	E82502	8260B	7/30/2009 11:33:00AM	0.051	0.051	UG/L	U
034475	Tetrachloroethene	N	E82502	8260B	7/30/2009 11:33:00AM	0.22	0.22	UG/L	U
034010	Toluene	N	E82502	8260B	7/30/2009 11:33:00AM	0.52	0.52	UG/L	U
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/30/2009 11:33:00AM	0.13	0.13	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/30/2009 11:33:00AM	0.12	0.12	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/13/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank  
 Water Classification: SW-IIIIF  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/30/2009 11:33:00AM	1.1	1.1	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/30/2009 11:33:00AM	0.15	0.15	UG/L	U
077057	Vinyl acetate	N	E82502	8260B	7/30/2009 11:33:00AM	0.6	0.6	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/30/2009 11:33:00AM	0.25	0.25	UG/L	U

Total Parameters Monitored: 48

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

### FIELD INFORMATION FORM



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: 07/29/09 PURGE TIME: 1350 ELAPSED HRS:     
WATER VOL IN CASING:    ACTUAL VOL PURGED:    WELL VOLS PURGED:   

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: O or N Filter Device: Y or N             (circle or fill in)  
Purging Device:    A-Submersible Pump D-Bailer Filter Type:    A-In-line Disposable C-Vacuum  
B-Peristaltic Pump E-Piston Pump B-Pressure X-Other:     
Sampling Device: F C-QED Bladder Pump F-Dipper/Bottle A-Teflon C-PVC X-Other:     
X-Other:    Sample Tube Type:    B-Stainless Steel D-Polypropylene

WELL DATA  
Well Elevation (at TOC)    (ft/msl) Depth to Water (DTW)    (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) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1 <sup>st</sup>	1 <sup>st</sup>						
:	2 <sup>nd</sup>	2 <sup>nd</sup>						
:	3 <sup>rd</sup>	3 <sup>rd</sup>						
:	4 <sup>th</sup>	4 <sup>th</sup>						
:								
:								
:								
:								
:								
:								

Suggested range for 3 consec. readings or note Permit/State requirements: pH +/- 0.2 Conductance +/- 3% Temp. -- Turbidity -- DO +/- 10% eH/ORP +/- 25 mV DTW 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: 07/29/09 pH (std): 5.29 CONDUCTANCE (umhos/cm @ 25°C): 105 TEMP. (°C): 32.8 TURBIDITY (ntu): 0.5 DO (mg/L - ppm): 3.2 eH/ORP (mV): 159.0 Other:   

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: brwn w/ turb Other: NO SHEEN  
Weather Conditions (required daily, or as conditions change):    Direction/Speed: SW/0-3 Outlook: cloudy, 90°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):  
07/29/09 BEN RAMJEAWAN Ben Ramjeawan PRO-TECH  
Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

# FIELD INFORMATION FORM



Site Name: TRAIL RIDGE  
 Site No.:      Sample Point: SK-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): 072902 PURGE TIME (2400 Hr Clock): 1325 ELAPSED HRS (hrs:min):   +    
 WATER VOL IN CASING (Gallons):      ACTUAL VOL PURGED (Gallons):      WELL VOLS PURGED:     

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:  A-Submersible Pump  D-Bailer  Filter Device:  Y or  N, 0.45  $\mu$  or       $\mu$  (circle or fill in)  
 Sampling Device:  F  B-Peristaltic Pump  E-Piston Pump  Filter Type:       A-In-line Disposable  C-Vacuum  
 X-Other:       C-QED Bladder Pump  F-Dipper/Bottle  Sample Tube Type:       B-Pressure  X-Other:       
 X-Other:       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) ( $\mu$ mhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
		+/- 0.2		+/- 3%		+/- 10%		+/- 25 mV		Stabilize	

Suggested range for 3 consec. readings or note Permit/State requirements: 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): 072909 pH (std): 4.92 CONDUCTANCE (umhos/cm @ 25°C): 55 TEMP. (°C): 25.8 TURBIDITY (ntu): 1.4 DO (mg/L-ppm): 5.3 eH/ORP (mV): 55 Other:       
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: SD SCREEN  
 Weather Conditions (required daily, or as conditions change):      Direction/Speed: SW @ 0-5 Outlook: clear, 90°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):  
07 29 09 BEN RANGELAN Ben Rangelan PRO-TECH  
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

## **APPENDIX D**

Laboratory Reports – Condensate Sample

August 14, 2009

Service Request No: J0903710

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

**Laboratory Results for: Trail Ridge**

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 29, 2009. For your reference, these analyses have been assigned our service request number **J0903710**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

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*For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com).*



COLUMBIA ANALYTICAL SERVICES, INC.

**Client:** HDR Engineering  
**Project:** Trail Ridge  
**Sample Matrix:** Water

**Service Request No.:** J0903710  
**Date Received:** 7/29/09

**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 was received for analysis at Columbia Analytical Services on 7/29/09. The samples was 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.

**TCLP Volatiles by GC-MS**

The sample was analyzed for TCLP Volatiles using EPA Methods 1311/8260. No problems were observed.

**TCLP Pesticides by GC-ECD**

The sample was analyzed for TCLP Pesticides using EPA Methods 1311/8081. 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.

**TCLP Semivolatiles by GC-MS**

The sample was analyzed for TCLP Semivolatiles using EPA Methods 1311/8270. The following observations were made regarding this delivery group.

**Lab Control Sample Exceptions**

The spike recovery of Pyridine for Laboratory Control Sample (LCS) JWG0902544-3 was outside the lower control criterion. The analyte in question was not detected in the associated field sample. The error associated with reduced recovery equates to a potential low bias. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/14/09

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.

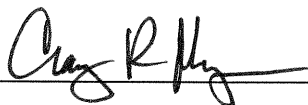
TCLP Metals

The sample was analyzed for TCLP Metals using EPA Methods 1311/6010B/7470A. No problems were observed.

Subcontracted Analytical Parameters

The sample was delivered to ENCO Labs in Jacksonville, FL on 8/3/09 for TCLP Herbicides determination. The certified analytical report has been included in its entirety in Appendix A: Subcontracted Analytical Results.

Approved by \_\_\_\_\_



Date \_\_\_\_\_

8/14/09

## 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

Service Request: J0903710

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903710-001	COND	7/29/09	11:30

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903710  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009  
**Date Prepared:** 08/11/2009

**Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction  
 Volatile Organic Compounds by GC/MS**

**Sample Name:** COND  
**Lab Code:** J0903710-001  
**Preparation Method:** EPA 1311ZHE  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** mg/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.10	0.023	0.2	100	08/11/09	08/11/09	
1,1-Dichloroethene	ND	U	0.10	0.027	0.7	100	08/11/09	08/11/09	
<b>2-Butanone (MEK)</b>	<b>12</b>		2.5	0.077	200	100	08/11/09	08/11/09	
Chloroform	ND	U	0.10	0.018	6	100	08/11/09	08/11/09	
Carbon Tetrachloride	ND	U	0.10	0.026	0.5	100	08/11/09	08/11/09	
Benzene	ND	U	0.10	0.020	0.5	100	08/11/09	08/11/09	
1,2-Dichloroethane	ND	U	0.10	0.018	0.5	100	08/11/09	08/11/09	
Trichloroethene (TCE)	ND	U	0.10	0.023	0.5	100	08/11/09	08/11/09	
Tetrachloroethene (PCE)	ND	U	0.10	0.044	0.7	100	08/11/09	08/11/09	
Chlorobenzene	ND	U	0.10	0.019	100	100	08/11/09	08/11/09	
1,4-Dichlorobenzene	ND	U	0.10	0.021	7.5	100	08/11/09	08/11/09	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	90	82-116	Acceptable
1,2-Dichloroethane-d4	89	71-122	Acceptable
Toluene-d8	94	88-117	Acceptable
4-Bromofluorobenzene	98	79-120	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903710  
**Date Collected:** NA  
**Date Received:** NA  
**Date Prepared:** 08/11/2009

**Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction  
 Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902606-4  
**Preparation Method:** EPA 1311ZHE  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** mg/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.10	0.023	0.2	100	08/11/09	08/11/09	
1,1-Dichloroethene	ND	U	0.10	0.027	0.7	100	08/11/09	08/11/09	
2-Butanone (MEK)	ND	U	2.5	0.077	200	100	08/11/09	08/11/09	
Chloroform	ND	U	0.10	0.018	6	100	08/11/09	08/11/09	
Carbon Tetrachloride	ND	U	0.10	0.026	0.5	100	08/11/09	08/11/09	
Benzene	ND	U	0.10	0.020	0.5	100	08/11/09	08/11/09	
1,2-Dichloroethane	ND	U	0.10	0.018	0.5	100	08/11/09	08/11/09	
Trichloroethene (TCE)	ND	U	0.10	0.023	0.5	100	08/11/09	08/11/09	
Tetrachloroethene (PCE)	ND	U	0.10	0.044	0.7	100	08/11/09	08/11/09	
Chlorobenzene	ND	U	0.10	0.019	100	100	08/11/09	08/11/09	
1,4-Dichlorobenzene	ND	U	0.10	0.021	7.5	100	08/11/09	08/11/09	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	89	82-116	Acceptable
1,2-Dichloroethane-d4	82	71-122	Acceptable
Toluene-d8	94	88-117	Acceptable
4-Bromofluorobenzene	98	79-120	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

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

Service Request: J0903710  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009  
 Date Prepared: 07/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
 Semi-Volatile Organic Compounds by GC/MS

Sample Name: COND  
 Lab Code: J0903710-001

Units: mg/L  
 Basis: NA

Preparation Method: EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	UJ	0.20	0.029	5.0	1	08/05/09	08/07/09	J(3)
2-Methylphenol	ND	U	0.050	0.013	200	1	08/05/09	08/07/09	
4-Methylphenol†	3.2		0.50	0.20	200	10	08/05/09	08/07/09	
Hexachloroethane	ND	U	0.050	0.010	3.0	1	08/05/09	08/07/09	
Nitrobenzene	ND	U	0.050	0.018	2.0	1	08/05/09	08/07/09	
Hexachlorobutadiene	ND	U	0.050	0.010	0.50	1	08/05/09	08/07/09	
2,4,6-Trichlorophenol	ND	U	0.050	0.018	2.0	1	08/05/09	08/07/09	
2,4,5-Trichlorophenol	ND	U	0.050	0.018	400	1	08/05/09	08/07/09	
2,4-Dinitrotoluene	ND	U	0.050	0.014	0.13	1	08/05/09	08/07/09	
Hexachlorobenzene	ND	U	0.050	0.010	0.13	1	08/05/09	08/07/09	
Pentachlorophenol	ND	U	0.20	0.011	100	1	08/05/09	08/07/09	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	33	10-77	Acceptable
Phenol-d6	28	10-51	Acceptable
Nitrobenzene-d5	57	42-106	Acceptable
2-Fluorobiphenyl	68	43-99	Acceptable
2,4,6-Tribromophenol	72	30-122	Acceptable
Terphenyl-d14	57	23-165	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



## Analytical Results

Client: Jacksonville, City of  
 Project: Trail Ridge  
 Sample Matrix: Soil

Service Request: J0903710  
 Date Collected: NA  
 Date Received: NA  
 Date Prepared: 07/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
 Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: JWG0902544-4  
 Preparation Method: EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: mg/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	UJ	0.20	0.029	5.0	1	08/05/09	08/07/09	J(3)
2-Methylphenol	ND	U	0.050	0.013	200	1	08/05/09	08/07/09	
4-Methylphenol†	ND	U	0.050	0.020	200	1	08/05/09	08/07/09	
Hexachloroethane	ND	U	0.050	0.010	3.0	1	08/05/09	08/07/09	
Nitrobenzene	ND	U	0.050	0.018	2.0	1	08/05/09	08/07/09	
Hexachlorobutadiene	ND	U	0.050	0.010	0.50	1	08/05/09	08/07/09	
2,4,6-Trichlorophenol	ND	U	0.050	0.018	2.0	1	08/05/09	08/07/09	
2,4,5-Trichlorophenol	ND	U	0.050	0.018	400	1	08/05/09	08/07/09	
2,4-Dinitrotoluene	ND	U	0.050	0.014	0.13	1	08/05/09	08/07/09	
Hexachlorobenzene	ND	U	0.050	0.010	0.13	1	08/05/09	08/07/09	
Pentachlorophenol	ND	U	0.20	0.011	100	1	08/05/09	08/07/09	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	35	10-77	Acceptable
Phenol-d6	18	10-51	Acceptable
Nitrobenzene-d5	66	42-106	Acceptable
2-Fluorobiphenyl	72	43-99	Acceptable
2,4,6-Tribromophenol	88	30-122	Acceptable
Terphenyl-d14	83	23-165	Acceptable

## † Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

## Analytical Results

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

Service Request: J0903710  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009  
 Date Prepared: 07/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
 Organochlorine Pesticides by GC-ECD

Sample Name: COND  
 Lab Code: J0903710-001  
 Preparation Method: EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8081A

Units: mg/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Endrin	ND	U	0.00020	0.00009	0.02	1	08/05/09	08/07/09	
gamma-BHC (Lindane)	ND	U	0.00020	0.00008	0.40	1	08/05/09	08/07/09	
Heptachlor	ND	U	0.00020	0.00009	0.008	1	08/05/09	08/07/09	
Heptachlor Epoxide	ND	U	0.00020	0.00007	0.008	1	08/05/09	08/07/09	
Methoxychlor	ND	U	0.00050	0.00011	10	1	08/05/09	08/07/09	
Chlordane	ND	U	0.0050	0.0010	0.03	1	08/05/09	08/07/09	
Toxaphene	ND	U	0.010	0.010	0.5	1	08/05/09	08/07/09	

Surrogate Name	%Rec	Control Limits	Note
Tetrachloro-m-xylene	39	32-92	Acceptable
Decachlorobiphenyl	42	13-104	Acceptable

Comments: \_\_\_\_\_

Analytical Results

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

Service Request: J0903710  
 Date Collected: NA  
 Date Received: NA  
 Date Prepared: 07/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
 Organochlorine Pesticides by GC-ECD

Sample Name: Method Blank  
 Lab Code: JWG0902545-4  
 Preparation Method: EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8081A

Units: mg/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Endrin	ND	U	0.00020	0.00009	0.02	1	08/05/09	08/07/09	
gamma-BHC (Lindane)	ND	U	0.00020	0.00008	0.40	1	08/05/09	08/07/09	
Heptachlor	ND	U	0.00020	0.00009	0.008	1	08/05/09	08/07/09	
Heptachlor Epoxide	ND	U	0.00020	0.00007	0.008	1	08/05/09	08/07/09	
Methoxychlor	ND	U	0.00050	0.00011	10	1	08/05/09	08/07/09	
Chlordane	ND	U	0.0050	0.0010	0.03	1	08/05/09	08/07/09	
Toxaphene	ND	U	0.010	0.010	0.5	1	08/05/09	08/07/09	

Surrogate Name	%Rec	Control Limits	Note
Tetrachloro-m-xylene	73	32-92	Acceptable
Decachlorobiphenyl	88	13-104	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC**

Analytical Report

**Client:** Jacksonville, City of  
**Project Name:** Trail Ridge  
**Project Number:** NA  
**Matrix:** TCLP

**Service Request:** J0903710  
**Date Collected:** 7/29/2009  
**Date Received:** 7/29/2009  
**Date TCLP Performed:** 7/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
 EPA Method 1311  
 Total Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name:** COND  
**Lab Code:** J0903710-001  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3010A	6010B	0.003	0.10	1.0	08/03/09	08/04/09	0.75	
Barium	EPA 3010A	6010B	0.004	0.40	1.0	08/03/09	08/04/09	0.42	
Cadmium	EPA 3010A	6010B	0.004	0.10	1.0	08/03/09	08/04/09	U	
Chromium	EPA 3010A	6010B	0.004	0.10	1.0	08/03/09	08/04/09	0.066	i
Lead	EPA 3010A	6010B	0.008	0.50	1.0	08/03/09	08/12/09	U	
Mercury	METHOD	7470A	0.0004	0.0025	1.0	08/03/09	08/04/09	0.0004	i
Selenium	EPA 3010A	6010B	0.016	0.10	1.0	08/03/09	08/12/09	U	
Silver	EPA 3010A	6010B	0.012	0.080	1.0	08/03/09	08/04/09	U	

# COLUMBIA ANALYTICAL SERVICES, INC

## Analytical Report

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

**Service Request:** J0903710  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date TCLP Performed:** 7/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA Method 1311  
Total Metals  
Units: mg/L (ppm) in TCLP Extract

**Sample Name:** Method Blank  
**Lab Code:** MB2-0803  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3010A	6010B	0.003	0.100	1.0	08/03/09	08/04/09	U	
Barium	EPA 3010A	6010B	0.004	0.400	1.0	08/03/09	08/04/09	U	
Cadmium	EPA 3010A	6010B	0.004	0.100	1.0	08/03/09	08/04/09	U	
Chromium	EPA 3010A	6010B	0.004	0.100	1.0	08/03/09	08/04/09	U	
Lead	EPA 3010A	6010B	0.008	0.500	1.0	08/03/09	08/12/09	U	
Selenium	EPA 3010A	6010B	0.016	0.100	1.0	08/03/09	08/12/09	U	
Silver	EPA 3010A	6010B	0.012	0.080	1.0	08/03/09	08/04/09	U	

**COLUMBIA ANALYTICAL SERVICES, INC**

Analytical Report

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

**Service Request:** J0903710  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date TCLP Performed:** 7/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA Method 1311  
Total Metals  
Units: mg/L (ppm) in TCLP Extract

**Sample Name:** Method Blank  
**Lab Code:** MB5-0803  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Mercury	METHOD	7470A	0.00008	0.00050	1.0	08/03/09	08/04/09	U	

# COLUMBIA ANALYTICAL SERVICES, INC

## Analytical Report

**Client:** Jacksonville, City of  
**Project Name:** Trail Ridge  
**Project Number:** NA  
**Matrix:** TCLP

**Service Request:** J0903710  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date TCLP Performed:** 7/31/2009

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA Method 1311  
Total Metals  
Units: mg/L (ppm) in TCLP Extract

**Sample Name:** TCLP Blank  
**Lab Code:** TCLP Blank  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3010A	6010B	0.003	0.10	1.0	08/03/09	08/04/09	0.009	i
Barium	EPA 3010A	6010B	0.004	0.40	1.0	08/03/09	08/04/09	U	
Cadmium	EPA 3010A	6010B	0.004	0.10	1.0	08/03/09	08/04/09	U	
Chromium	EPA 3010A	6010B	0.004	0.10	1.0	08/03/09	08/04/09	U	
Lead	EPA 3010A	6010B	0.008	0.50	1.0	08/03/09	08/12/09	U	
Mercury	METHOD	7470A	0.00040	0.00250	1.0	08/03/09	08/04/09	U	
Selenium	EPA 3010A	6010B	0.016	0.10	1.0	08/03/09	08/12/09	U	
Silver	EPA 3010A	6010B	0.012	0.080	1.0	08/03/09	08/04/09	U	

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

Service Request: J0903710

**Surrogate Recovery Summary**  
**Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction**  
**Volatile Organic Compounds by GC/MS**

Preparation Method: EPA 1311ZHE  
 Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
COND	J0903710-001	90	89	94	98
Method Blank	JWG0902606-4	89	82	94	98
CONDMS	JWG0902606-1	88	83	93	102
CONDMS	JWG0902606-2	85	84	99	100
Lab Control Sample	JWG0902606-3	86	81	95	99

**Surrogate Recovery Control Limits (%)**

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Sur1 = Dibromofluoromethane	82-116
Sur2 = 1,2-Dichloroethane-d4	71-122
Sur3 = Toluene-d8	88-117
Sur4 = 4-Bromofluorobenzene	79-120

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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  
 Sample Matrix: Water

Service Request: J0903710  
 Date Prepared: 08/11/2009  
 Date Extracted: 08/11/2009  
 Date Analyzed: 08/11/2009

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

Sample Name: COND  
 Lab Code: J0903710-001  
 Extraction Method: EPA 1311ZHE/EPA 5030B  
 Analysis Method: 8260B

Units: mg/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902606

Analyte Name	Sample Result	CONDMS JWG0902606-1 Matrix Spike			CONDDMS JWG0902606-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	2.27	2.00	113	2.19	2.00	109	78-141	4	30
1,1-Dichloroethene	ND	2.18	2.00	109	2.21	2.00	111	79-133	2	30
2-Butanone (MEK)	12	19.2	10.0	77	18.3	10.0	67	63-134	5	30
Chloroform	ND	2.06	2.00	103	1.97	2.00	99	81-124	4	30
Carbon Tetrachloride	ND	2.14	2.00	107	2.07	2.00	103	76-131	3	30
Benzene	ND	2.02	2.00	101	2.03	2.00	101	78-123	0	30
1,2-Dichloroethane	ND	1.97	2.00	98	1.99	2.00	100	74-126	1	30
Trichloroethene (TCE)	ND	2.14	2.00	107	1.99	2.00	100	77-128	7	30
Tetrachloroethene (PCE)	ND	2.09	2.00	104	2.23	2.00	111	79-123	7	30
Chlorobenzene	ND	1.98	2.00	99	2.12	2.00	106	81-120	7	30
1,4-Dichlorobenzene	ND	2.02	2.00	101	2.19	2.00	110	75-115	8	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  
**Sample Matrix:** Water

**Service Request:** J0903710  
**Date Prepared:** 08/11/2009  
**Date Extracted:** 08/11/2009  
**Date Analyzed:** 08/11/2009

**Lab Control Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Extraction Method:** EPA 1311ZHE/EPA 5030B  
**Analysis Method:** 8260B

**Units:** mg/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** JWG0902606

Analyte Name	Lab Control Sample JWG0902606-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Vinyl Chloride	0.0187	0.0200	94	78-132
1,1-Dichloroethene	0.0181	0.0200	90	78-126
2-Butanone (MEK)	0.0803	0.100	80	72-136
Chloroform	0.0189	0.0200	94	83-124
Carbon Tetrachloride	0.0182	0.0200	91	81-125
Benzene	0.0183	0.0200	91	79-119
1,2-Dichloroethane	0.0180	0.0200	90	80-124
Trichloroethene (TCE)	0.0183	0.0200	92	76-124
Tetrachloroethene (PCE)	0.0189	0.0200	94	80-121
Chlorobenzene	0.0182	0.0200	91	86-113
1,4-Dichlorobenzene	0.0187	0.0200	94	83-113

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  
 Sample Matrix: Water

Service Request: J0903710

**Surrogate Recovery Summary  
 Toxicity Characteristic Leaching Procedure (TCLP)  
 Semi-Volatile Organic Compounds by GC/MS**

Preparation Method: EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
COND	J0903710-001	33	28	57	68	72	57
Method Blank	JWG0902544-4	35	18	66	72	88	83
Lab Control Sample	JWG0902544-3	29	14	49	58	60	58

**Surrogate Recovery Control Limits (%)**

Sur1 = 2-Fluorophenol	10-77	Sur5 = 2,4,6-Tribromophenol	30-122
Sur2 = Phenol-d6	10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5	42-106		
Sur4 = 2-Fluorobiphenyl	43-99		

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  
 Sample Matrix: Soil

Service Request: J0903710  
 Date Prepared: 07/30/2009  
 Date Extracted: 08/05/2009  
 Date Analyzed: 08/07/2009

Lab Control Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 1311/EPA 3510C  
 Analysis Method: 8270C

Units: mg/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902544

Lab Control Sample  
 JWG0902544-3  
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Pyridine	0.0400	0.500	8 *	20-87
2-Methylphenol	0.219	0.500	44	21-100
4-Methylphenol	0.415	0.750	55	15-111
Hexachloroethane	0.202	0.500	40	19-113
Nitrobenzene	0.254	0.500	51	36-116
Hexachlorobutadiene	0.224	0.500	45	20-110
2,4,6-Trichlorophenol	0.273	0.500	55	41-115
2,4,5-Trichlorophenol	0.329	0.500	66	47-113
2,4-Dinitrotoluene	0.316	0.500	63	54-121
Hexachlorobenzene	0.281	0.500	56	53-110
Pentachlorophenol	0.259	0.500	52	38-120

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  
 Sample Matrix: Water

Service Request: J0903710

**Surrogate Recovery Summary  
 Toxicity Characteristic Leaching Procedure (TCLP)  
 Organochlorine Pesticides by GC-ECD**

Preparation Method EPA 1311  
 Extraction Method: EPA 3510C  
 Analysis Method: 8081A

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
COND	J0903710-001	39	42
Method Blank	JWG0902545-4	73	88
Lab Control Sample	JWG0902545-3	61	74

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**Surrogate Recovery Control Limits (%)**

Sur1 = Tetrachloro-m-xylene	32-92
Sur2 = Decachlorobiphenyl	13-104

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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  
 Sample Matrix: Water

Service Request: J0903710  
 Date Prepared: 07/30/2009  
 Date Extracted: 08/05/2009  
 Date Analyzed: 08/07/2009

Lab Control Spike Summary  
 Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 1311/EPA 3510C  
 Analysis Method: 8081A

Units: mg/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902545

Lab Control Sample  
 JWG0902545-3  
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Endrin	0.00319	0.00400	80	57-117
gamma-BHC (Lindane)	0.00288	0.00400	72	57-101
Heptachlor	0.00311	0.00400	78	52-100
Heptachlor Epoxide	0.00313	0.00400	78	59-103
Methoxychlor	0.00322	0.00400	81	43-123

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 Name:** Trail Ridge  
**Project Number:**  
**Matrix:** TCLP

**Service Request:** J0903710  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009  
**Date TCLP Performed:** 7/31/2009  
**Date Extracted:** 08/03/2009  
**Date Analyzed:** 08/04/2009

**Matrix Spike Summary**  
**Toxicity Characteristic Leaching Procedure (TCLP)**  
**EPA Method 1311**  
**Total Metals**  
**Units: mg/L (ppm) in TCLP Extract**

**Sample Name:** CONDS  
**Lab Code:** J0903710-001S  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spike Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3010A	6010B	0.100	2.00	0.752	2.780	101	75 - 125	
Barium	EPA 3010A	6010B	0.400	4.00	0.423	4.220	95	75 - 125	
Cadmium	EPA 3010A	6010B	0.100	2.000	U	1.990	100	75 - 125	
Chromium	EPA 3010A	6010B	0.100	2.00	0.066	2.050	99	75 - 125	
Lead	EPA 3010A	6010B	0.500	4.00	U	3.680	92	75 - 125	
Mercury	METHOD	7470A	0.0025	0.0250	0.0004	0.0200	78	75 - 125	
Selenium	EPA 3010A	6010B	0.100	2.00	U	1.860	93	75 - 125	
Silver	EPA 3010A	6010B	0.080	0.50	U	0.490	98	75 - 125	

**COLUMBIA ANALYTICAL SERVICES, INC**

QA/QC Report

**Client:** Jacksonville, City of  
**Project Name:** Trail Ridge  
**Project Number:**  
**Matrix:** TCLP

**Service Request:** J0903710  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009  
**Date TCLP Performed:** 7/31/2009  
**Date Extracted:** 08/03/2009  
**Date Analyzed:** 08/04/2009

Matrix Spike Summary  
 Toxicity Characteristic Leaching Procedure (TCLP)  
 EPA Method 1311  
 Total Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name:** CONSDSD  
**Lab Code:** J0903710-001SD  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spike Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3010A	6010B	0.100	2.00	0.752	3.370	131	75 - 125	J
Barium	EPA 3010A	6010B	0.400	4.00	0.423	4.960	113	75 - 125	
Cadmium	EPA 3010A	6010B	0.100	2.000	U	2.370	118	75 - 125	
Chromium	EPA 3010A	6010B	0.100	2.00	0.066	2.460	120	75 - 125	
Lead	EPA 3010A	6010B	0.500	4.00	U	4.160	104	75 - 125	
Selenium	EPA 3010A	6010B	0.100	2.00	U	2.090	104	75 - 125	
Silver	EPA 3010A	6010B	0.080	0.50	U	0.580	116	75 - 125	



# COLUMBIA ANALYTICAL SERVICES, INC

## QA/QC Report

**Client:** Jacksonville, City of  
**Project Name:** Trail Ridge  
**Project Number:**  
**Matrix:** WATER

**Service Request:** J0903710  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date Extracted:** 08/03/2009  
**Date Analyzed:** 08/04/2009

Laboratory Control Sample Summary  
 Total Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name:** Lab Control Sample  
**Lab Code:** LCS2-0803  
**Test Notes:**

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3010A	6010B	0.10	2.00	1.90	95	80 - 120	
Barium	EPA 3010A	6010B	0.40	4.00	3.89	97	80 - 120	
Cadmium	EPA 3010A	6010B	0.10	2.00	1.92	96	80 - 120	
Chromium	EPA 3010A	6010B	0.10	2.00	1.94	97	80 - 120	
Lead	EPA 3010A	6010B	0.50	4.00	3.79	95	80 - 120	
Mercury	METHOD	7470A	0.0005	0.0050	0.0055	110	80 - 120	
Selenium	EPA 3010A	6010B	0.10	2.00	1.82	91	80 - 120	
Silver	EPA 3010A	6010B	0.080	0.500	0.480	96	80 - 120	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: HDR INC Service Request # 50903710  
 Project: TRAIL RIDGE - TCLP  
 Cooler received on 7/29/09 and opened on 7/29/09 by 880  
 COURIER:  CAS  UPS  FEDEX  DHL  CLIENT Tracking # \_\_\_\_\_

- |    |   |                                      |                                     |                                      |
|----|---|--------------------------------------|-------------------------------------|--------------------------------------|
| 1  | Were custody seals on outside of cooler?  | Yes                                  | <input checked="" type="radio"/> No | N/A                                  |
| 2  | Were seals intact, signed and dated?  | Yes                                  | <input checked="" type="radio"/> No | <input checked="" type="radio"/> N/A |
| 3  | Were custody papers properly filled out?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)   | <u>2.4</u>                           |                                     |                                      |
| 5  | Correct Temperature?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 6  | Were Ice or Ice Packs present   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 9  | Did all bottle labels and tags agree with custody papers?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 10 | Were the correct bottles used for the tests indicated?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 11 | Were all of the preserved bottles received with the appropriate preservative?<br>HNO3 pH<2    H2SO4 pH<2    ZnAc2/NaOH pH>9    NaOH pH>12    HCl pH<2<br>Preservative additions noted below | Yes                                  | No                                  | <input checked="" type="radio"/> N/A |
| 12 | Were all samples received within analysis holding times?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below   | Yes                                  | No                                  | <input checked="" type="radio"/> N/A |
| 14 | Where did the bottles originate?  | <input checked="" type="radio"/> CAS | Client                              |                                      |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date: 7

SR #: J 0903710

Date: 7/29/09

Initials: SJD

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

Sample #	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		
Container	40ml	40ml	40ml	40ml	125ml	125ml	125ml	125ml	250ml	250ml	250ml	250ml	250ml	250ml	250ml	500ml	500ml	500ml	1L	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100ml	Misc.	
Pres.	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	G	ENC	P	Misc.	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	<2	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	<2	N/A	<2	<2	<2	<2	<2	<2	<2	N/A	N/A	N/A	
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# **Appendix A**

## **Subcontracted Analytical Results**

**Environmental Conservation Laboratories, Inc.**

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314

FAX: 407.850.6945



www.encolabs.com

Wednesday, August 12, 2009

Columbia Analytical Svcs. (CO009)

Attn: Craig Myers

9143 Philips Highway, Suite 200

Jacksonville, FL 32256

**RE: Laboratory Results for  
Project Number: J0903710, Project Name/Desc: J0903710  
ENCO Workorder: A903833**

Dear Craig Myers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, August 4, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Marcia Colon".

Marcia Colon For Ronald Wambles

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 7.



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**SAMPLE SUMMARY/LABORATORY CHRONICLE**

<b>Client ID:</b> COND	<b>Lab ID:</b> A903833-01	<b>Sampled:</b> 07/29/09 11:30	<b>Received:</b> 08/04/09 08:00
<b>Parameter</b> EPA 8151A	<b>Hold Date/Time(s)</b> 08/05/09	<b>Prep Date/Time(s)</b> 09/14/09	<b>Analysis Date/Time(s)</b> 08/05/09 16:08
			<b>Analysis Date/Time(s)</b> 8/10/2009 07:10



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**SAMPLE DETECTION SUMMARY**

**No positive results detected.**





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**ANALYTICAL RESULTS**

**Description:** COND  
**Matrix:** Ground Water  
**Project:** J0903710

**Lab Sample ID:** A903833-01  
**Sampled:** 07/29/09 11:30  
**Sampled By:**

**Received:** 08/04/09 08:00  
**Work Order:** A903833

**TCLP Herbicides by GC**

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4,5-TP (Silvex) [93-72-1] ^	0.00006	U	mg/L	1	0.00006	0.0005	9H05032	EPA 8151A	08/10/09 07:10	RGG	
2,4-D [94-75-7] ^	0.00009	U	mg/L	1	0.00009	0.0005	9H05032	EPA 8151A	08/10/09 07:10	RGG	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
2,4-DCAA	0.0096	1	0.0100	97 %	68-139	9H05032	EPA 8151A	08/10/09 07:10	RGG		

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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**QUALITY CONTROL**

**TCLP Herbicides by GC - Quality Control**

Batch 9H05032 - EPA 3510C

**Blank (9H05032-BLK1)**

Prepared: 08/05/2009 16:08 Analyzed: 08/10/2009 01:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.00001	U	0.0001	mg/L							
2,4-D	0.00002	U	0.0001	mg/L							
Surrogate: 2,4-DCAA	0.0018			mg/L	0.00200		92	68-139			

**LCS (9H05032-BS1)**

Prepared: 08/05/2009 16:08 Analyzed: 08/10/2009 01:32

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.0015		0.0001	mg/L	0.00200		77	68-154			
2,4-D	0.0016		0.0001	mg/L	0.00200		79	62-144			
Surrogate: 2,4-DCAA	0.0018			mg/L	0.00200		88	68-139			

**Matrix Spike (9H05032-MS1)**

Prepared: 08/05/2009 16:08 Analyzed: 08/10/2009 01:57

Source: A903805-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.0015		0.0001	mg/L	0.00200	0.00001 U	76	68-154			
2,4-D	0.0016		0.0001	mg/L	0.00200	0.00002 U	79	62-144			
Surrogate: 2,4-DCAA	0.0017			mg/L	0.00200		85	68-139			

**Matrix Spike Dup (9H05032-MSD1)**

Prepared: 08/05/2009 16:08 Analyzed: 08/10/2009 02:21

Source: A903805-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.0016		0.0001	mg/L	0.00200	0.00001 U	79	68-154	4	15	
2,4-D	0.0017		0.0001	mg/L	0.00200	0.00002 U	83	62-144	5	33	
Surrogate: 2,4-DCAA	0.0019			mg/L	0.00200		94	68-139			



**FLAGS/NOTES AND DEFINITIONS**

- PQL PQL: Practical Quantitation Limit.
- B Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
- I The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
- J Estimated value. The associated sample note or project narrative indicate the causative reason.
- K Off-scale low; Actual value is known to be less than the value given.
- L Off-scale high; Actual value is known to be greater than value given.
- M Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed.
- Q Sample exceeded the accepted holding time.
- T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- Z Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- ? Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- \* Not reported due to interference.



www.encolabs.com

Project Number: 10903710  
Project Manager: Craig Myers

Columbia Analytical Services, Inc. Chain of Custody  
9143 Phillips Highway • Jacksonville, FL 32256 • 904-739-2177 • FAX 904-739-2011

CAS Contact: Craig Myers

Lab Code	Sample ID	# of Cont.	Matrix	Date	Time	Lab ID
J0903710-001	COND	1	Water	7/29/09	11:30	ENCO

HERB\_TCLP  
8151A

7-31-09 15:00  
C. Myers

Special Instructions/Comments		Turnaround Requirements		Report Requirements		Invoice Information	
PLEASE SEND RESULTS TO MANDY SULLIVAN		<input type="checkbox"/> RUSH (Surcharges Apply) <input checked="" type="checkbox"/> PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date _____ Requested Report Date: 08/12/09		<input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data PQL AND/ EDD <input checked="" type="checkbox"/>		PO# J0903710 Bill to	

Requested By:

*Sharon Bytch* 8/3/09

Received By:

*Sharon Bytch* 8/3/09

Auth# Number:

29038833

# **Appendix B**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 22921  
 WACS Testsite Name: COND  
 Water Classification: GC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 11:30:00AM  
 Sampling Method:  
 Permitted Well Type: CO - Compliance

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034501	1,1-Dichloroethene	N	E82502	8260B	8/11/2009 3:27:00PM	0.027	0.027	MG/L	U
034531	1,2-Dichloroethane	N	E82502	8260B	8/11/2009 3:27:00PM	0.018	0.018	MG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	8/11/2009 3:27:00PM	0.021	0.021	MG/L	U
039760	2,4,5-TP (Silvex)	N	E83182	8151	8/10/2009 1:08:00AM	0.00006	0.00006	MG/L	U
077687	2,4,5-Trichlorophenol	N	E82502	8270C	8/7/2009 1:40:00PM	0.018	0.018	MG/L	U
034621	2,4,6-Trichlorophenol	N	E82502	8270C	8/7/2009 1:40:00PM	0.018	0.018	MG/L	U
039730	2,4-D	N	E83182	8151	8/10/2009 1:08:00AM	0.00009	0.00009	MG/L	U
034611	2,4-Dinitrotoluene	N	E82502	8270C	8/7/2009 1:40:00PM	0.014	0.014	MG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	8/11/2009 3:27:00PM	12	0.077	MG/L	U
077152	2-Methylphenol	N	E82502	8270C	8/7/2009 1:40:00PM	0.013	0.013	MG/L	U
077146	4-Methylphenol	N	E82502	8270C	8/7/2009 2:09:00PM	3.2	0.2	MG/L	U
001002	Arsenic	N	E82502	6010B	8/4/2009 9:03:00PM	0.75	0.003	MG/L	U
001007	Barium	N	E82502	6010B	8/4/2009 9:03:00PM	0.42	0.004	MG/L	U
078124	Benzene	N	E82502	8260B	8/11/2009 3:27:00PM	0.02	0.02	MG/L	U
001027	Cadmium	N	E82502	6010B	8/4/2009 9:03:00PM	0.004	0.004	MG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	8/11/2009 3:27:00PM	0.026	0.026	MG/L	U
039350	Chlordane	N	E82502	8081A	8/7/2009 6:42:00PM	0.001	0.001	MG/L	U
034301	Chlorobenzene	N	E82502	8260B	8/11/2009 3:27:00PM	0.019	0.019	MG/L	U
032106	Chloroform	N	E82502	8260B	8/11/2009 3:27:00PM	0.018	0.018	MG/L	U
001034	Chromium	N	E82502	6010B	8/4/2009 9:03:00PM	0.066	0.004	MG/L	I
000299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 11:30:00AM	1.2		MG/L	
039390	Endrin	N	E82502	8081A	8/7/2009 6:42:00PM	0.00009	0.00009	MG/L	U
039782	gamma-BHC (Lindane)	N	E82502	8081A	8/7/2009 6:42:00PM	0.000083	0.000083	MG/L	U
039410	Heptachlor	N	E82502	8081A	8/7/2009 6:42:00PM	0.000096	0.000096	MG/L	U
039420	Heptachlor epoxide	N	E82502	8081A	8/7/2009 6:42:00PM	0.000079	0.000079	MG/L	U
039700	Hexachlorobenzene	N	E82502	8270C	8/7/2009 1:40:00PM	0.01	0.01	MG/L	U
034391	Hexachlorobutadiene	N	E82502	8270C	8/7/2009 1:40:00PM	0.01	0.01	MG/L	U
034396	Hexachloroethane	N	E82502	8270C	8/7/2009 1:40:00PM	0.01	0.01	MG/L	U
001051	Lead	N	E82502	6010B	8/12/2009 1:42:00PM	0.008	0.008	MG/L	U
071900	Mercury	N	E82502	7470A	8/4/2009 1:37:00PM	0.0004	0.0004	MG/L	I
039480	Methoxychlor	N	E82502	8081A	8/7/2009 6:42:00PM	0.00011	0.00011	MG/L	U
034447	Nitrobenzene	N	E82502	8270C	8/7/2009 1:40:00PM	0.018	0.018	MG/L	U
039032	Pentachlorophenol	N	E82502	8270C	8/7/2009 1:40:00PM	0.011	0.011	MG/L	U
000406	pH	N	E82502	FIELD	7/29/2009 11:30:00AM	7.31		pH Units	
077045	Pyridine	N	E82502	8270C	8/7/2009 1:40:00PM	0.029	0.029	MG/L	JU
001147	Selenium	N	E82502	6010B	8/12/2009 1:42:00PM	0.016	0.016	MG/L	U
001077	Silver	N	E82502	6010B	8/4/2009 9:03:00PM	0.012	0.012	MG/L	U
000094	Specific Conductance	N	E82502	FIELD	7/29/2009 11:30:00AM	6542		UMHOS/CM	
000010	Temperature, Water	N	E82502	FIELD	7/29/2009 11:30:00AM	31.3		Deg C	
034475	Tetrachloroethene	N	E82502	8260B	8/11/2009 3:27:00PM	0.044	0.044	MG/L	U
039400	Toxaphene	N	E82502	8081A	8/7/2009 6:42:00PM	0.01	0.01	MG/L	U
039180	Trichloroethene	N	E82502	8260B	8/11/2009 3:27:00PM	0.023	0.023	MG/L	U
082078	Turbidity	N	E82502	FIELD	7/29/2009 11:30:00AM	29.6		NTU	
039175	Vinyl Chloride	N	E82502	8260B	8/11/2009 3:27:00PM	0.023	0.023	MG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009

Page 1 of 2

Form Produced by FDEP Validator software

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Total Parameters Monitored: 44

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\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009  
Page 2 of 2

Form Produced by FDEP 40 Validator software





## **APPENDIX E**

Laboratory Reports – Leachate

August 13, 2009

Service Request No: J0903707

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

**Laboratory Results for: Trail Ridge**

Dear Handi:

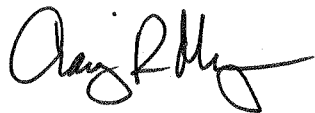
Enclosed are the results of the sample(s) submitted to our laboratory on July 29, 2009. For your reference, these analyses have been assigned our service request number **J0903707**.

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](mailto:CMyers@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Craig Myers  
Project Manager

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## 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

**Service Request:** J0903707

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0903707-001	LCS	7/29/09	12:00
J0903707-002	LDSS	7/29/09	12:30
J0903707-003	Trip Blank	7/29/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS  
 Lab Code: J0903707-001  
 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
Dichlorodifluoromethane	ND U	100	1.2	1400	5	07/31/09	07/31/09	
Chloromethane	ND U	5.0	0.85	2.7	5	07/31/09	07/31/09	
Vinyl Chloride	ND U	5.0	1.3	1	5	07/31/09	07/31/09	
Bromomethane	ND U	5.0	0.70	9.8	5	07/31/09	07/31/09	
Chloroethane	ND U	25	0.95	12	5	07/31/09	07/31/09	
Trichlorofluoromethane	ND U	100	1.3	2100	5	07/31/09	07/31/09	
Acrolein	ND U	250	48	3.5	5	07/31/09	07/31/09	
1,1-Dichloroethene	ND U	5.0	0.80	7	5	07/31/09	07/31/09	
<b>Acetone</b>	<b>1100</b>	250	12	6300	5	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND U	25	13		5	07/31/09	07/31/09	
Carbon Disulfide	ND U	50	4.2	700	5	07/31/09	07/31/09	
Acetonitrile	ND U	130	17	42	5	07/31/09	07/31/09	
Allyl Chloride	ND U	25	0.65	35	5	07/31/09	07/31/09	
Methylene Chloride	ND U	25	3.6	5	5	07/31/09	07/31/09	
Acrylonitrile	ND U	50	3.0	0.06	5	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND U	5.0	0.65	100	5	07/31/09	07/31/09	
1,1-Dichloroethane	ND U	5.0	2.8	70	5	07/31/09	07/31/09	
Vinyl Acetate	ND U	50	3.0	88	5	07/31/09	07/31/09	
Chloroprene	ND U	5.0	1.2	140	5	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND U	5.0	0.60	70	5	07/31/09	07/31/09	
2,2-Dichloropropane	ND U	5.0	1.1		5	07/31/09	07/31/09	
1,1-Dichloropropene	ND U	25	0.65		5	07/31/09	07/31/09	
<b>2-Butanone (MEK)</b>	<b>1100</b>	50	2.8	4200	5	07/31/09	07/31/09	
Propionitrile	ND U	130	4.4		5	07/31/09	07/31/09	
Bromochloromethane	ND U	25	0.70	91	5	07/31/09	07/31/09	
Methacrylonitrile	ND U	25	1.0	0.7	5	07/31/09	07/31/09	
Chloroform	ND U	5.0	0.50	70	5	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND U	5.0	1.1	200	5	07/31/09	07/31/09	
Carbon Tetrachloride	ND U	5.0	0.90	3	5	07/31/09	07/31/09	
Benzene	ND U	5.0	2.6	1	5	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND U	5.0	0.75	3	5	07/31/09	07/31/09	
Isobutyl Alcohol	ND U	500	23	2100	5	07/31/09	07/31/09	
Trichloroethene (TCE)	ND U	5.0	0.75	3	5	07/31/09	07/31/09	
1,2-Dichloropropane	ND U	5.0	0.29	5	5	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** LCS  
**Lab Code:** J0903707-001  
**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
Dibromomethane	ND	U	25	0.60	70	5	07/31/09	07/31/09	
Methyl Methacrylate	ND	U	10	1.1	25	5	07/31/09	07/31/09	
Bromodichloromethane	ND	U	5.0	0.50	0.6	5	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	5.0	0.60	0.2	5	07/31/09	07/31/09	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>28</b>	<b>I</b>	130	1.9	560	5	07/31/09	07/31/09	
<b>Toluene</b>	<b>19</b>		5.0	2.6	40	5	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	5.0	0.60	0.2	5	07/31/09	07/31/09	
Ethyl Methacrylate	ND	U	5.0	0.70	630	5	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	5.0	1.1	5	5	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	5.0	1.1	3	5	07/31/09	07/31/09	
1,3-Dichloropropane	ND	U	5.0	0.50		5	07/31/09	07/31/09	
<b>2-Hexanone</b>	<b>8.4</b>	<b>I</b>	130	1.8	280	5	07/31/09	07/31/09	
Dibromochloromethane	ND	U	5.0	0.55	0.4	5	07/31/09	07/31/09	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.90	0.02	5	07/31/09	07/31/09	
Chlorobenzene	ND	U	5.0	0.75	100	5	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.50	1.3	5	07/31/09	07/31/09	
<b>Ethylbenzene</b>	<b>16</b>		5.0	0.50	30	5	07/31/09	07/31/09	
<b>m,p-Xylenes</b>	<b>24</b>		10	1.1	20	5	07/31/09	07/31/09	
<b>o-Xylene</b>	<b>15</b>		5.0	0.50	20	5	07/31/09	07/31/09	
<b>Styrene</b>	<b>1.8</b>	<b>I</b>	5.0	0.26	100	5	07/31/09	07/31/09	
Bromoform	ND	U	10	0.60	4.4	5	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.75	0.2	5	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	10	0.80	0.02	5	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	100	5.5		5	07/31/09	07/31/09	
1,3-Dichlorobenzene	ND	U	5.0	0.70	210	5	07/31/09	07/31/09	
<b>1,4-Dichlorobenzene</b>	<b>12</b>		5.0	0.70	75	5	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	5.0	0.85	600	5	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	25	1.3	0.2	5	07/31/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	50	1.5	70	5	07/31/09	07/31/09	
Hexachlorobutadiene	ND	U	50	3.1	0.4	5	07/31/09	07/31/09	
Naphthalene	ND	U	50	1.3	14	5	07/31/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
Date Collected: 07/29/2009  
Date Received: 07/29/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS  
Lab Code: J0903707-001

Units: ug/L  
Basis: NA

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	94	71-122	Acceptable
4-Bromofluorobenzene	92	75-120	Acceptable
Dibromofluoromethane	92	82-116	Acceptable
Toluene-d8	95	88-117	Acceptable

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** LDSS  
**Lab Code:** J0903707-002  
**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
Dichlorodifluoromethane	ND U	100	1.2	1400	5	07/31/09	07/31/09	
Chloromethane	ND U	5.0	0.85	2.7	5	07/31/09	07/31/09	
Vinyl Chloride	ND U	5.0	1.3	1	5	07/31/09	07/31/09	
Bromomethane	ND U	5.0	0.70	9.8	5	07/31/09	07/31/09	
Chloroethane	ND U	25	0.95	12	5	07/31/09	07/31/09	
Trichlorofluoromethane	ND U	100	1.3	2100	5	07/31/09	07/31/09	
Acrolein	ND U	250	48	3.5	5	07/31/09	07/31/09	
1,1-Dichloroethene	ND U	5.0	0.80	7	5	07/31/09	07/31/09	
<b>Acetone</b>	<b>59 I</b>	250	12	6300	5	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND U	25	13		5	07/31/09	07/31/09	
Carbon Disulfide	ND U	50	4.2	700	5	07/31/09	07/31/09	
Acetonitrile	ND U	130	17	42	5	07/31/09	07/31/09	
Allyl Chloride	ND U	25	0.65	35	5	07/31/09	07/31/09	
Methylene Chloride	ND U	25	3.6	5	5	07/31/09	07/31/09	
Acrylonitrile	ND U	50	3.0	0.06	5	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND U	5.0	0.65	100	5	07/31/09	07/31/09	
1,1-Dichloroethane	ND U	5.0	2.8	70	5	07/31/09	07/31/09	
Vinyl Acetate	ND U	50	3.0	88	5	07/31/09	07/31/09	
Chloroprene	ND U	5.0	1.2	140	5	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND U	5.0	0.60	70	5	07/31/09	07/31/09	
2,2-Dichloropropane	ND U	5.0	1.1		5	07/31/09	07/31/09	
1,1-Dichloropropene	ND U	25	0.65		5	07/31/09	07/31/09	
<b>2-Butanone (MEK)</b>	<b>47 I</b>	50	2.8	4200	5	07/31/09	07/31/09	
Propionitrile	ND U	130	4.4		5	07/31/09	07/31/09	
Bromochloromethane	ND U	25	0.70	91	5	07/31/09	07/31/09	
Methacrylonitrile	ND U	25	1.0	0.7	5	07/31/09	07/31/09	
Chloroform	ND U	5.0	0.50	70	5	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND U	5.0	1.1	200	5	07/31/09	07/31/09	
Carbon Tetrachloride	ND U	5.0	0.90	3	5	07/31/09	07/31/09	
Benzene	ND U	5.0	2.6	1	5	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND U	5.0	0.75	3	5	07/31/09	07/31/09	
Isobutyl Alcohol	ND U	500	23	2100	5	07/31/09	07/31/09	
Trichloroethene (TCE)	ND U	5.0	0.75	3	5	07/31/09	07/31/09	
1,2-Dichloropropane	ND U	5.0	0.29	5	5	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS  
 Lab Code: J0903707-002  
 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
Dibromomethane	ND	U	25	0.60	70	5	07/31/09	07/31/09	
Methyl Methacrylate	ND	U	10	1.1	25	5	07/31/09	07/31/09	
Bromodichloromethane	ND	U	5.0	0.50	0.6	5	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	5.0	0.60	0.2	5	07/31/09	07/31/09	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>20</b>	<b>I</b>	130	1.9	560	5	07/31/09	07/31/09	
<b>Toluene</b>	<b>4.1</b>	<b>I</b>	5.0	2.6	40	5	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	5.0	0.60	0.2	5	07/31/09	07/31/09	
Ethyl Methacrylate	ND	U	5.0	0.70	630	5	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	5.0	1.1	5	5	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	5.0	1.1	3	5	07/31/09	07/31/09	
1,3-Dichloropropane	ND	U	5.0	0.50		5	07/31/09	07/31/09	
2-Hexanone	ND	U	130	1.8	280	5	07/31/09	07/31/09	
Dibromochloromethane	ND	U	5.0	0.55	0.4	5	07/31/09	07/31/09	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.90	0.02	5	07/31/09	07/31/09	
Chlorobenzene	ND	U	5.0	0.75	100	5	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.50	1.3	5	07/31/09	07/31/09	
<b>Ethylbenzene</b>	<b>8.1</b>		5.0	0.50	30	5	07/31/09	07/31/09	
<b>m,p-Xylenes</b>	<b>7.2</b>	<b>I</b>	10	1.1	20	5	07/31/09	07/31/09	
<b>o-Xylene</b>	<b>6.5</b>		5.0	0.50	20	5	07/31/09	07/31/09	
<b>Styrene</b>	<b>0.49</b>	<b>I</b>	5.0	0.26	100	5	07/31/09	07/31/09	
Bromoform	ND	U	10	0.60	4.4	5	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.75	0.2	5	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	10	0.80	0.02	5	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	100	5.5		5	07/31/09	07/31/09	
1,3-Dichlorobenzene	ND	U	5.0	0.70	210	5	07/31/09	07/31/09	
<b>1,4-Dichlorobenzene</b>	<b>11</b>		5.0	0.70	75	5	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	5.0	0.85	600	5	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	25	1.3	0.2	5	07/31/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	50	1.5	70	5	07/31/09	07/31/09	
Hexachlorobutadiene	ND	U	50	3.1	0.4	5	07/31/09	07/31/09	
<b>Naphthalene</b>	<b>10</b>	<b>I</b>	50	1.3	14	5	07/31/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
Date Collected: 07/29/2009  
Date Received: 07/29/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS  
Lab Code: J0903707-002

Units: ug/L  
Basis: NA

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	96	71-122	Acceptable
4-Bromofluorobenzene	91	75-120	Acceptable
Dibromofluoromethane	98	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** Trip Blank  
**Lab Code:** J0903707-003  
**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
Dichlorodifluoromethane	ND	U	20	0.23	1400	1	07/31/09	07/31/09	
Chloromethane	ND	U	1.0	0.17	2.7	1	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
Acrolein	ND	U	50	9.6	3.5	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Acetonitrile	ND	U	25	3.3	42	1	07/31/09	07/31/09	
Allyl Chloride	ND	U	5.0	0.13	35	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
Chloroprene	ND	U	1.0	0.24	140	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2,2-Dichloropropane	ND	U	1.0	0.22		1	07/31/09	07/31/09	
1,1-Dichloropropene	ND	U	5.0	0.13		1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Propionitrile	ND	U	25	0.87		1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Methacrylonitrile	ND	U	5.0	0.20	0.7	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Isobutyl Alcohol	ND	U	100	4.6	2100	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** Trip Blank  
**Lab Code:** J0903707-003  
**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
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Methyl Methacrylate	ND	U	2.0	0.21	25	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
Ethyl Methacrylate	ND	U	1.0	0.14	630	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
1,3-Dichloropropane	ND	U	1.0	0.10		1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,3-Dichlorobenzene	ND	U	1.0	0.14	210	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	10	0.30	70	1	07/31/09	07/31/09	
Hexachlorobutadiene	ND	U	10	0.61	0.4	1	07/31/09	07/31/09	
Naphthalene	ND	U	10	0.25	14	1	07/31/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** Trip Blank  
**Lab Code:** J0903707-003

**Units:** ug/L  
**Basis:** NA

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	92	71-122	Acceptable
4-Bromofluorobenzene	94	75-120	Acceptable
Dibromofluoromethane	97	82-116	Acceptable
Toluene-d8	99	88-117	Acceptable

Comments: \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: NA  
 Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank  
 Lab Code: JWG0902499-4  
 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
Dichlorodifluoromethane	ND	U	20	0.23	1400	1	07/31/09	07/31/09	
Chloromethane	ND	U	1.0	0.17	2.7	1	07/31/09	07/31/09	
Vinyl Chloride	ND	U	1.0	0.25	1	1	07/31/09	07/31/09	
Bromomethane	ND	U	1.0	0.14	9.8	1	07/31/09	07/31/09	
Chloroethane	ND	U	5.0	0.19	12	1	07/31/09	07/31/09	
Trichlorofluoromethane	ND	U	20	0.25	2100	1	07/31/09	07/31/09	
Acrolein	ND	U	50	9.6	3.5	1	07/31/09	07/31/09	
1,1-Dichloroethene	ND	U	1.0	0.16	7	1	07/31/09	07/31/09	
Acetone	ND	U	50	2.4	6300	1	07/31/09	07/31/09	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5		1	07/31/09	07/31/09	
Carbon Disulfide	ND	U	10	0.84	700	1	07/31/09	07/31/09	
Acetonitrile	ND	U	25	3.3	42	1	07/31/09	07/31/09	
Allyl Chloride	ND	U	5.0	0.13	35	1	07/31/09	07/31/09	
Methylene Chloride	ND	U	5.0	0.72	5	1	07/31/09	07/31/09	
Acrylonitrile	ND	U	10	0.59	0.06	1	07/31/09	07/31/09	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	100	1	07/31/09	07/31/09	
1,1-Dichloroethane	ND	U	1.0	0.56	70	1	07/31/09	07/31/09	
Vinyl Acetate	ND	U	10	0.60	88	1	07/31/09	07/31/09	
Chloroprene	ND	U	1.0	0.24	140	1	07/31/09	07/31/09	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	70	1	07/31/09	07/31/09	
2,2-Dichloropropane	ND	U	1.0	0.22		1	07/31/09	07/31/09	
1,1-Dichloropropene	ND	U	5.0	0.13		1	07/31/09	07/31/09	
2-Butanone (MEK)	ND	U	10	0.56	4200	1	07/31/09	07/31/09	
Propionitrile	ND	U	25	0.87		1	07/31/09	07/31/09	
Bromochloromethane	ND	U	5.0	0.14	91	1	07/31/09	07/31/09	
Methacrylonitrile	ND	U	5.0	0.20	0.7	1	07/31/09	07/31/09	
Chloroform	ND	U	1.0	0.10	70	1	07/31/09	07/31/09	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	200	1	07/31/09	07/31/09	
Carbon Tetrachloride	ND	U	1.0	0.18	3	1	07/31/09	07/31/09	
Benzene	ND	U	1.0	0.52	1	1	07/31/09	07/31/09	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
Isobutyl Alcohol	ND	U	100	4.6	2100	1	07/31/09	07/31/09	
Trichloroethene (TCE)	ND	U	1.0	0.15	3	1	07/31/09	07/31/09	
1,2-Dichloropropane	ND	U	1.0	0.057	5	1	07/31/09	07/31/09	

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902499-4  
**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
Dibromomethane	ND	U	5.0	0.12	70	1	07/31/09	07/31/09	
Methyl Methacrylate	ND	U	2.0	0.21	25	1	07/31/09	07/31/09	
Bromodichloromethane	ND	U	1.0	0.10	0.6	1	07/31/09	07/31/09	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	560	1	07/31/09	07/31/09	
Toluene	ND	U	1.0	0.52	40	1	07/31/09	07/31/09	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	0.2	1	07/31/09	07/31/09	
Ethyl Methacrylate	ND	U	1.0	0.14	630	1	07/31/09	07/31/09	
1,1,2-Trichloroethane	ND	U	1.0	0.21	5	1	07/31/09	07/31/09	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	3	1	07/31/09	07/31/09	
1,3-Dichloropropane	ND	U	1.0	0.10		1	07/31/09	07/31/09	
2-Hexanone	ND	U	25	0.36	280	1	07/31/09	07/31/09	
Dibromochloromethane	ND	U	1.0	0.11	0.4	1	07/31/09	07/31/09	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	0.02	1	07/31/09	07/31/09	
Chlorobenzene	ND	U	1.0	0.15	100	1	07/31/09	07/31/09	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1.3	1	07/31/09	07/31/09	
Ethylbenzene	ND	U	1.0	0.10	30	1	07/31/09	07/31/09	
m,p-Xylenes	ND	U	2.0	0.22	20	1	07/31/09	07/31/09	
o-Xylene	ND	U	1.0	0.10	20	1	07/31/09	07/31/09	
Styrene	ND	U	1.0	0.051	100	1	07/31/09	07/31/09	
Bromoform	ND	U	2.0	0.12	4.4	1	07/31/09	07/31/09	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	0.2	1	07/31/09	07/31/09	
1,2,3-Trichloropropane	ND	U	2.0	0.16	0.02	1	07/31/09	07/31/09	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1		1	07/31/09	07/31/09	
1,3-Dichlorobenzene	ND	U	1.0	0.14	210	1	07/31/09	07/31/09	
1,4-Dichlorobenzene	ND	U	1.0	0.14	75	1	07/31/09	07/31/09	
1,2-Dichlorobenzene	ND	U	1.0	0.17	600	1	07/31/09	07/31/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	0.26	0.2	1	07/31/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	10	0.30	70	1	07/31/09	07/31/09	
Hexachlorobutadiene	ND	U	10	0.61	0.4	1	07/31/09	07/31/09	
Naphthalene	ND	U	10	0.25	14	1	07/31/09	07/31/09	

**Comments:** \_\_\_\_\_



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
Date Collected: NA  
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank  
Lab Code: JWG0902499-4

Units: ug/L  
Basis: NA

Surrogate Name	%Rec	Control Limits	Note
1,2-Dichloroethane-d4	88	71-122	Acceptable
4-Bromofluorobenzene	95	75-120	Acceptable
Dibromofluoromethane	99	82-116	Acceptable
Toluene-d8	94	88-117	Acceptable

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** LCS  
**Lab Code:** J0903707-001  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

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

**Sample Name:** LDSS  
**Lab Code:** J0903707-002  
**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	0.020	0.0070	0.02	1	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

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  
**Project:** Trail Ridge  
**Sample Matrix:** Water

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

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

**Sample Name:** Method Blank **Units:** ug/L  
**Lab Code:** JWG0902511-3 **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	08/04/09	08/05/09	
1,2-Dibromo-3-chloropropane (DBCP)	ND	UJ	0.020	0.0057	0.2	1	08/04/09	08/05/09	J(3)

Surrogate Name	%Rec	Control Limits	Note
1,1,1,2-Tetrachloroethane	118	77-150	Acceptable

**Comments:** \_\_\_\_\_

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS  
 Lab Code: J0903707-001  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodimethylamine	ND	U	5.2	0.75	0.0007	1	07/30/09	07/31/09	
N-Nitrosomethylethylamine	ND	U	5.2	0.84	0.002	1	07/30/09	07/31/09	
Methyl Methanesulfonate	ND	U	5.2	0.58		1	07/30/09	07/31/09	
N-Nitrosodiethylamine	ND	U	5.2	0.65	0.0002	1	07/30/09	07/31/09	
Ethyl Methanesulfonate	ND	U	5.2	0.67		1	07/30/09	07/31/09	
<b>Phenol</b>	<b>46</b>		5.2	0.43	10	1	07/30/09	07/31/09	
Bis(2-chloroethyl) Ether	ND	U	5.2	0.98	0.03	1	07/30/09	07/31/09	
2-Chlorophenol	ND	U	5.2	0.77	35	1	07/30/09	07/31/09	
1,3-Dichlorobenzene	ND	U	5.2	0.72	210	1	07/30/09	07/31/09	
<b>1,4-Dichlorobenzene</b>	<b>4.5</b>	<b>I</b>	5.2	1.3	75	1	07/30/09	07/31/09	
1,2-Dichlorobenzene	ND	U	5.2	0.76	600	1	07/30/09	07/31/09	
Bis(2-chloroisopropyl) Ether	ND	U	5.2	0.59		1	07/30/09	07/31/09	
Benzyl alcohol	ND	U	5.2	0.71	2100	1	07/30/09	07/31/09	
<b>2-Methylphenol</b>	<b>11</b>		5.2	0.66	35	1	07/30/09	07/31/09	
Acetophenone	ND	U	11	1.4	700	1	07/30/09	07/31/09	
N-Nitrosopyrrolidine	ND	U	5.2	0.72	0.02	1	07/30/09	07/31/09	
Hexachloroethane	ND	U	5.2	0.94	2.5	1	07/30/09	07/31/09	
N-Nitrosodi-n-propylamine	ND	U	5.2	0.70	0.005	1	07/30/09	07/31/09	
o-Toluidine	ND	U	5.2	0.91	0.1	1	07/30/09	07/31/09	
<b>4-Methylphenol†</b>	<b>130</b>		5.2	0.79	3.5	1	07/30/09	07/31/09	
Nitrobenzene	ND	U	5.2	0.75	3.5	1	07/30/09	07/31/09	
N-Nitrosopiperidine	ND	U	5.2	1.7		1	07/30/09	07/31/09	
Isophorone	ND	U	5.2	0.82	37	1	07/30/09	07/31/09	
2-Nitrophenol	ND	U	21	0.62		1	07/30/09	07/31/09	
2,4-Dimethylphenol	ND	U	5.2	0.81	140	1	07/30/09	07/31/09	
O,O,O-Triethyl Phosphorothioate	ND	U	21	0.54		1	07/30/09	07/31/09	
bis(2-Chloroethoxy)methane	ND	U	5.2	0.91		1	07/30/09	07/31/09	
2,4-Dichlorophenol	ND	U	5.2	0.52	0.3	1	07/30/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	5.2	0.80	70	1	07/30/09	07/31/09	
Naphthalene	ND	U	5.2	0.81	14	1	07/30/09	07/31/09	
2,6-Dichlorophenol	ND	U	11	0.74	0.2	1	07/30/09	07/31/09	
Hexachloropropene	ND	U	5.2	2.0		1	07/30/09	07/31/09	
4-Chloroaniline	ND	U	5.2	0.55	28	1	07/30/09	07/31/09	
Hexachlorobutadiene	ND	U	5.2	0.63	0.4	1	07/30/09	07/31/09	

Comments: \_\_\_\_\_

## Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

## Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS  
 Lab Code: J0903707-001  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodi-n-butylamine	ND	U	5.2	0.69	0.006	1	07/30/09	07/31/09	
p-Phenylenediamine	ND	U	21	1.2	1300	1	07/30/09	07/31/09	
4-Chloro-3-methylphenol	ND	U	5.2	0.77	63	1	07/30/09	07/31/09	
2-Methylnaphthalene	ND	U	5.2	0.76	28	1	07/30/09	07/31/09	
Hexachlorocyclopentadiene	ND	U	5.2	0.42	50	1	07/30/09	07/31/09	
1,2,4,5-Tetrachlorobenzene	ND	U	5.2	0.57	2.1	1	07/30/09	07/31/09	
Safrole	ND	U	5.2	0.73		1	07/30/09	07/31/09	
2,4,6-Trichlorophenol	ND	U	5.2	0.75	3.2	1	07/30/09	07/31/09	
2,4,5-Trichlorophenol	ND	U	5.2	0.67	1	1	07/30/09	07/31/09	
Isosafrole	ND	U	5.2	0.77		1	07/30/09	07/31/09	
2-Chloronaphthalene	ND	U	5.2	0.73	560	1	07/30/09	07/31/09	
2-Nitroaniline	ND	U	5.2	0.57	21	1	07/30/09	07/31/09	
1,4-Naphthoquinone	ND	U	11	1.5		1	07/30/09	07/31/09	
1,3-Dinitrobenzene	ND	U	11	1.6	0.7	1	07/30/09	07/31/09	
Acenaphthylene	ND	U	5.2	0.60	210	1	07/30/09	07/31/09	
Dimethyl Phthalate	ND	U	5.2	0.78	70000	1	07/30/09	07/31/09	
<b>2,6-Dinitrotoluene</b>	<b>18</b>		5.2	0.85	0.05	1	07/30/09	07/31/09	
Acenaphthene	ND	U	5.2	1.1	20	1	07/30/09	07/31/09	
3-Nitroaniline	ND	U	5.2	0.77	1.7	1	07/30/09	07/31/09	
2,4-Dinitrophenol	ND	U	21	0.56	14	1	07/30/09	07/31/09	
Pentachlorobenzene	ND	U	5.2	2.5	5.6	1	07/30/09	07/31/09	
Dibenzofuran	ND	U	5.2	0.81	28	1	07/30/09	07/31/09	
4-Nitrophenol	ND	U	21	0.95	56	1	07/30/09	07/31/09	
2,4-Dinitrotoluene	ND	U	5.2	4.2	0.05	1	07/30/09	07/31/09	
2-Naphthylamine	ND	U	5.2	1.2	0.0003	1	07/30/09	07/31/09	
2,3,4,6-Tetrachlorophenol	ND	U	5.2	1.3	210	1	07/30/09	07/31/09	
1-Naphthylamine	ND	U	5.2	1.2		1	07/30/09	07/31/09	
Fluorene	ND	U	5.2	0.90	280	1	07/30/09	07/31/09	
4-Chlorophenyl Phenyl Ether	ND	U	5.2	0.63		1	07/30/09	07/31/09	
Thionazin	ND	U	11	0.83		1	07/30/09	07/31/09	
Diethyl Phthalate	ND	U	5.2	4.2	5600	1	07/30/09	07/31/09	
5-Nitro-o-toluidine	ND	U	5.2	1.1		1	07/30/09	07/31/09	
4-Nitroaniline	ND	U	5.2	0.94	1.7	1	07/30/09	07/31/09	
2-Methyl-4,6-dinitrophenol	ND	U	21	0.66		1	07/30/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS  
 Lab Code: J0903707-001  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodiphenylamine†	ND U	5.2	0.98	7.1	1	07/30/09	07/31/09	
Diallate	ND U	5.2	1.1	0.6	1	07/30/09	07/31/09	
Phorate	ND U	5.2	0.90	1.4	1	07/30/09	07/31/09	
1,3,5-Trinitrobenzene	ND U	5.2	1.2	210	1	07/30/09	07/31/09	
4-Bromophenyl Phenyl Ether	ND UJ	5.2	0.69		1	07/30/09	07/31/09	J(3)
Phenacetin	ND U	5.2	0.91		1	07/30/09	07/31/09	
Hexachlorobenzene	ND U	5.2	0.65	1	1	07/30/09	07/31/09	
Dimethoate	ND U	5.2	0.92	1.4	1	07/30/09	07/31/09	
4-Aminobiphenyl	ND U	5.2	1.1		1	07/30/09	07/31/09	
Pentachlorophenol	ND U	21	0.69	1	1	07/30/09	07/31/09	
Pentachloronitrobenzene	ND U	5.2	1.6	0.1	1	07/30/09	07/31/09	
Pronamide	ND U	21	0.87	53	1	07/30/09	07/31/09	
Phenanthrene	ND U	5.2	0.72	210	1	07/30/09	07/31/09	
Disulfoton	ND U	5.2	0.54	0.3	1	07/30/09	07/31/09	
Dinoseb	ND U	5.2	0.63	7	1	07/30/09	07/31/09	
Anthracene	ND U	5.2	0.73	2100	1	07/30/09	07/31/09	
Methyl Parathion	ND U	11	1.2	1.8	1	07/30/09	07/31/09	
Di-n-butyl Phthalate	ND U	5.2	0.99	700	1	07/30/09	07/31/09	
Parathion	ND U	21	0.95	4.2	1	07/30/09	07/31/09	
Methapyrilene	ND U	5.2	1.6		1	07/30/09	07/31/09	
Isodrin	ND U	11	0.73		1	07/30/09	07/31/09	
Fluoranthene	ND U	5.2	0.68	280	1	07/30/09	07/31/09	
Pyrene	ND U	5.2	0.86	210	1	07/30/09	07/31/09	
Chlorobenzilate	ND U	11	0.86	0.1	1	07/30/09	07/31/09	
3,3'-Dimethylbenzidine	ND UJ	21	2.4	0.004	1	07/30/09	07/31/09	J(3)
Famphur	ND UJ	11	0.71	3.5	1	07/30/09	07/31/09	J(3)
p-Dimethylaminoazobenzene	ND U	5.2	0.91		1	07/30/09	07/31/09	
Butyl Benzyl Phthalate	ND U	11	1.2	140	1	07/30/09	07/31/09	
2-Acetylaminofluorene	ND U	5.2	0.92		1	07/30/09	07/31/09	
Kepone	ND U	52	4.3	0.004	1	07/30/09	07/31/09	
3,3'-Dichlorobenzidine	1.5 I	21	0.91	0.08	1	07/30/09	07/31/09	
Benz(a)anthracene	ND U	5.2	0.88	0.05	1	07/30/09	07/31/09	
Chrysene	ND U	5.2	0.89	4.8	1	07/30/09	07/31/09	
Bis(2-ethylhexyl) Phthalate	1.0 I	5.2	1.0	6	1	07/30/09	07/31/09	

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Semi-Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** LCS  
**Lab Code:** J0903707-001  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8270C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Di-n-octyl Phthalate	ND	U	5.2	0.97	140	1	07/30/09	07/31/09	
Benzo(b)fluoranthene	ND	U	5.2	0.89	0.05	1	07/30/09	07/31/09	
Benzo(k)fluoranthene	ND	U	5.2	0.56	0.5	1	07/30/09	07/31/09	
7,12-Dimethylbenz(a)anthracene	ND	U	5.2	0.89		1	07/30/09	07/31/09	
Benzo(a)pyrene	ND	U	5.2	0.65	0.2	1	07/30/09	07/31/09	
3-Methylcholanthrene	ND	U	5.2	0.99		1	07/30/09	07/31/09	
Indeno(1,2,3-cd)pyrene	ND	U	5.2	0.57	0.05	1	07/30/09	07/31/09	
Dibenz(a,h)anthracene	ND	U	5.2	0.64	0.005	1	07/30/09	07/31/09	
Benzo(g,h,i)perylene	ND	U	5.2	0.93	210	1	07/30/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	23	10-77	Acceptable
Phenol-d6	23	10-51	Acceptable
Nitrobenzene-d5	43	32-106	Acceptable
2-Fluorobiphenyl	42	30-102	Acceptable
2,4,6-Tribromophenol	47	30-143	Acceptable
Terphenyl-d14	28	23-165	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.  
 N-Nitrosodiphenylamine This analyte can not be separated from Diphenylamine.

Comments:



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS  
 Lab Code: J0903707-002  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodimethylamine	ND	U	5.5	0.81	0.0007	1	07/30/09	07/31/09	
N-Nitrosomethylethylamine	ND	U	5.5	0.91	0.002	1	07/30/09	07/31/09	
Methyl Methanesulfonate	ND	U	5.5	0.62		1	07/30/09	07/31/09	
N-Nitrosodiethylamine	ND	U	5.5	0.70	0.0002	1	07/30/09	07/31/09	
Ethyl Methanesulfonate	ND	U	5.5	0.72		1	07/30/09	07/31/09	
<b>Phenol</b>	<b>25</b>		5.5	0.47	10	1	07/30/09	07/31/09	
Bis(2-chloroethyl) Ether	ND	U	5.5	1.1	0.03	1	07/30/09	07/31/09	
2-Chlorophenol	ND	U	5.5	0.83	35	1	07/30/09	07/31/09	
1,3-Dichlorobenzene	ND	U	5.5	0.77	210	1	07/30/09	07/31/09	
<b>1,4-Dichlorobenzene</b>	<b>5.7</b>		5.5	1.4	75	1	07/30/09	07/31/09	
1,2-Dichlorobenzene	ND	U	5.5	0.82	600	1	07/30/09	07/31/09	
Bis(2-chloroisopropyl) Ether	ND	U	5.5	0.63		1	07/30/09	07/31/09	
Benzyl alcohol	ND	U	5.5	0.76	2100	1	07/30/09	07/31/09	
2-Methylphenol	ND	U	5.5	0.71	35	1	07/30/09	07/31/09	
Acetophenone	ND	U	11	1.5	700	1	07/30/09	07/31/09	
N-Nitrosopyrrolidine	ND	U	5.5	0.77	0.02	1	07/30/09	07/31/09	
Hexachloroethane	ND	U	5.5	1.1	2.5	1	07/30/09	07/31/09	
N-Nitrosodi-n-propylamine	ND	U	5.5	0.75	0.005	1	07/30/09	07/31/09	
o-Toluidine	ND	U	5.5	0.98	0.1	1	07/30/09	07/31/09	
<b>4-Methylphenol†</b>	<b>110</b>		5.5	0.85	3.5	1	07/30/09	07/31/09	
Nitrobenzene	ND	U	5.5	0.81	3.5	1	07/30/09	07/31/09	
N-Nitrosopiperidine	ND	U	5.5	1.8		1	07/30/09	07/31/09	
Isophorone	ND	U	5.5	0.88	37	1	07/30/09	07/31/09	
2-Nitrophenol	ND	U	22	0.66		1	07/30/09	07/31/09	
2,4-Dimethylphenol	ND	U	5.5	0.87	140	1	07/30/09	07/31/09	
O,O,O-Triethyl Phosphorothioate	ND	U	22	0.58		1	07/30/09	07/31/09	
bis(2-Chloroethoxy)methane	ND	U	5.5	0.98		1	07/30/09	07/31/09	
2,4-Dichlorophenol	ND	U	5.5	0.55	0.3	1	07/30/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	5.5	0.86	70	1	07/30/09	07/31/09	
Naphthalene	ND	U	5.5	0.87	14	1	07/30/09	07/31/09	
2,6-Dichlorophenol	ND	U	11	0.80	0.2	1	07/30/09	07/31/09	
Hexachloropropene	ND	U	5.5	2.1		1	07/30/09	07/31/09	
4-Chloroaniline	ND	U	5.5	0.59	28	1	07/30/09	07/31/09	
Hexachlorobutadiene	ND	U	5.5	0.68	0.4	1	07/30/09	07/31/09	

Comments:

## Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

## Semi-Volatile Organic Compounds by GC/MS (Appendix II)

**Sample Name:** LDSS  
**Lab Code:** J0903707-002  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8270C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodi-n-butylamine	ND	U	5.5	0.74	0.006	1	07/30/09	07/31/09	
p-Phenylenediamine	ND	U	22	1.3	1300	1	07/30/09	07/31/09	
4-Chloro-3-methylphenol	ND	U	5.5	0.83	63	1	07/30/09	07/31/09	
2-Methylnaphthalene	ND	U	5.5	0.82	28	1	07/30/09	07/31/09	
Hexachlorocyclopentadiene	ND	U	5.5	0.46	50	1	07/30/09	07/31/09	
1,2,4,5-Tetrachlorobenzene	ND	U	5.5	0.61	2.1	1	07/30/09	07/31/09	
Safrole	ND	U	5.5	0.79		1	07/30/09	07/31/09	
2,4,6-Trichlorophenol	ND	U	5.5	0.81	3.2	1	07/30/09	07/31/09	
2,4,5-Trichlorophenol	ND	U	5.5	0.72	1	1	07/30/09	07/31/09	
Isosafrole	ND	U	5.5	0.83		1	07/30/09	07/31/09	
2-Chloronaphthalene	ND	U	5.5	0.79	560	1	07/30/09	07/31/09	
2-Nitroaniline	ND	U	5.5	0.61	21	1	07/30/09	07/31/09	
1,4-Naphthoquinone	ND	U	11	1.6		1	07/30/09	07/31/09	
1,3-Dinitrobenzene	ND	U	11	1.7	0.7	1	07/30/09	07/31/09	
Acenaphthylene	ND	U	5.5	0.64	210	1	07/30/09	07/31/09	
Dimethyl Phthalate	ND	U	5.5	0.84	70000	1	07/30/09	07/31/09	
<b>2,6-Dinitrotoluene</b>	<b>14</b>		5.5	0.92	0.05	1	07/30/09	07/31/09	
Acenaphthene	ND	U	5.5	1.1	20	1	07/30/09	07/31/09	
3-Nitroaniline	ND	U	5.5	0.83	1.7	1	07/30/09	07/31/09	
2,4-Dinitrophenol	ND	U	22	0.60	14	1	07/30/09	07/31/09	
Pentachlorobenzene	ND	U	5.5	2.7	5.6	1	07/30/09	07/31/09	
Dibenzofuran	ND	U	5.5	0.87	28	1	07/30/09	07/31/09	
4-Nitrophenol	ND	U	22	1.1	56	1	07/30/09	07/31/09	
2,4-Dinitrotoluene	ND	U	5.5	4.6	0.05	1	07/30/09	07/31/09	
2-Naphthylamine	ND	U	5.5	1.3	0.0003	1	07/30/09	07/31/09	
2,3,4,6-Tetrachlorophenol	ND	U	5.5	1.4	210	1	07/30/09	07/31/09	
1-Naphthylamine	ND	U	5.5	1.3		1	07/30/09	07/31/09	
Fluorene	ND	U	5.5	0.97	280	1	07/30/09	07/31/09	
4-Chlorophenyl Phenyl Ether	ND	U	5.5	0.68		1	07/30/09	07/31/09	
Thionazin	ND	U	11	0.90		1	07/30/09	07/31/09	
Diethyl Phthalate	ND	U	5.5	4.6	5600	1	07/30/09	07/31/09	
5-Nitro-o-toluidine	ND	U	5.5	1.1		1	07/30/09	07/31/09	
4-Nitroaniline	ND	U	5.5	1.1	1.7	1	07/30/09	07/31/09	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.71		1	07/30/09	07/31/09	

**Comments:**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS  
 Lab Code: J0903707-002  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodiphenylamine†	ND	U	5.5	1.1	7.1	1	07/30/09	07/31/09	
Diallate	ND	U	5.5	1.1	0.6	1	07/30/09	07/31/09	
Phorate	ND	U	5.5	0.97	1.4	1	07/30/09	07/31/09	
1,3,5-Trinitrobenzene	ND	U	5.5	1.3	210	1	07/30/09	07/31/09	
4-Bromophenyl Phenyl Ether	ND	UJ	5.5	0.74		1	07/30/09	07/31/09	J(3)
Phenacetin	ND	U	5.5	0.98		1	07/30/09	07/31/09	
Hexachlorobenzene	ND	U	5.5	0.70	1	1	07/30/09	07/31/09	
Dimethoate	ND	U	5.5	0.99	1.4	1	07/30/09	07/31/09	
4-Aminobiphenyl	ND	U	5.5	1.1		1	07/30/09	07/31/09	
Pentachlorophenol	ND	U	22	0.74	1	1	07/30/09	07/31/09	
Pentachloronitrobenzene	ND	U	5.5	1.7	0.1	1	07/30/09	07/31/09	
Pronamide	ND	U	22	0.94	53	1	07/30/09	07/31/09	
Phenanthrene	ND	U	5.5	0.77	210	1	07/30/09	07/31/09	
Disulfoton	ND	U	5.5	0.58	0.3	1	07/30/09	07/31/09	
Dinoseb	ND	U	5.5	0.68	7	1	07/30/09	07/31/09	
Anthracene	ND	U	5.5	0.79	2100	1	07/30/09	07/31/09	
Methyl Parathion	ND	U	11	1.3	1.8	1	07/30/09	07/31/09	
Di-n-butyl Phthalate	ND	U	5.5	1.1	700	1	07/30/09	07/31/09	
Parathion	ND	U	22	1.1	4.2	1	07/30/09	07/31/09	
Methapyrilene	ND	U	5.5	1.7		1	07/30/09	07/31/09	
Isodrin	ND	U	11	0.79		1	07/30/09	07/31/09	
Fluoranthene	ND	U	5.5	0.73	280	1	07/30/09	07/31/09	
Pyrene	ND	U	5.5	0.93	210	1	07/30/09	07/31/09	
Chlorobenzilate	ND	U	11	0.93	0.1	1	07/30/09	07/31/09	
3,3'-Dimethylbenzidine	ND	UJ	22	2.6	0.004	1	07/30/09	07/31/09	J(3)
Famphur	ND	UJ	11	0.76	3.5	1	07/30/09	07/31/09	J(3)
p-Dimethylaminoazobenzene	ND	U	5.5	0.98		1	07/30/09	07/31/09	
Butyl Benzyl Phthalate	ND	U	11	1.3	140	1	07/30/09	07/31/09	
2-Acetylaminofluorene	ND	U	5.5	0.99		1	07/30/09	07/31/09	
Kepone	ND	U	55	4.7	0.004	1	07/30/09	07/31/09	
<b>3,3'-Dichlorobenzidine</b>	<b>1.9</b>	<b>I</b>	22	0.98	0.08	1	07/30/09	07/31/09	
Benz(a)anthracene	ND	U	5.5	0.95	0.05	1	07/30/09	07/31/09	
Chrysene	ND	U	5.5	0.96	4.8	1	07/30/09	07/31/09	
Bis(2-ethylhexyl) Phthalate	ND	U	5.5	1.1	6	1	07/30/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS  
 Lab Code: J0903707-002  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Di-n-octyl Phthalate	ND	U	5.5	1.1	140	1	07/30/09	07/31/09	
Benzo(b)fluoranthene	ND	U	5.5	0.96	0.05	1	07/30/09	07/31/09	
Benzo(k)fluoranthene	ND	U	5.5	0.60	0.5	1	07/30/09	07/31/09	
7,12-Dimethylbenz(a)anthracene	ND	U	5.5	0.96		1	07/30/09	07/31/09	
Benzo(a)pyrene	ND	U	5.5	0.70	0.2	1	07/30/09	07/31/09	
3-Methylcholanthrene	ND	U	5.5	1.1		1	07/30/09	07/31/09	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.61	0.05	1	07/30/09	07/31/09	
Dibenz(a,h)anthracene	ND	U	5.5	0.69	0.005	1	07/30/09	07/31/09	
Benzo(g,h,i)perylene	ND	U	5.5	1.0	210	1	07/30/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	28	10-77	Acceptable
Phenol-d6	24	10-51	Acceptable
Nitrobenzene-d5	54	32-106	Acceptable
2-Fluorobiphenyl	59	30-102	Acceptable
2,4,6-Tribromophenol	66	30-143	Acceptable
Terphenyl-d14	40	23-165	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.  
 N-Nitrosodiphenylamine This analyte can not be separated from Diphenylamine.

Comments:

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS (Appendix II)**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902470-3  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8270C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodimethylamine	ND	U	5.0	0.73	0.0007	1	07/30/09	07/31/09	
N-Nitrosomethylethylamine	ND	U	5.0	0.82	0.002	1	07/30/09	07/31/09	
Methyl Methanesulfonate	ND	U	5.0	0.56		1	07/30/09	07/31/09	
N-Nitrosodiethylamine	ND	U	5.0	0.63	0.0002	1	07/30/09	07/31/09	
Ethyl Methanesulfonate	ND	U	5.0	0.65		1	07/30/09	07/31/09	
Phenol	ND	U	5.0	0.42	10	1	07/30/09	07/31/09	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.96	0.03	1	07/30/09	07/31/09	
2-Chlorophenol	ND	U	5.0	0.75	35	1	07/30/09	07/31/09	
1,3-Dichlorobenzene	ND	U	5.0	0.70	210	1	07/30/09	07/31/09	
1,4-Dichlorobenzene	ND	U	5.0	1.2	75	1	07/30/09	07/31/09	
1,2-Dichlorobenzene	ND	U	5.0	0.74	600	1	07/30/09	07/31/09	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.57		1	07/30/09	07/31/09	
Benzyl alcohol	ND	U	5.0	0.69	2100	1	07/30/09	07/31/09	
2-Methylphenol	ND	U	5.0	0.64	35	1	07/30/09	07/31/09	
Acetophenone	ND	U	10	1.3	700	1	07/30/09	07/31/09	
N-Nitrosopyrrolidine	ND	U	5.0	0.70	0.02	1	07/30/09	07/31/09	
Hexachloroethane	ND	U	5.0	0.92	2.5	1	07/30/09	07/31/09	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.68	0.005	1	07/30/09	07/31/09	
o-Toluidine	ND	U	5.0	0.89	0.1	1	07/30/09	07/31/09	
4-Methylphenol†	ND	U	5.0	0.77	3.5	1	07/30/09	07/31/09	
Nitrobenzene	ND	U	5.0	0.73	3.5	1	07/30/09	07/31/09	
N-Nitrosopiperidine	ND	U	5.0	1.6		1	07/30/09	07/31/09	
Isophorone	ND	U	5.0	0.80	37	1	07/30/09	07/31/09	
2-Nitrophenol	ND	U	20	0.60		1	07/30/09	07/31/09	
2,4-Dimethylphenol	ND	U	5.0	0.79	140	1	07/30/09	07/31/09	
O,O,O-Triethyl Phosphorothioate	ND	U	20	0.52		1	07/30/09	07/31/09	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.89		1	07/30/09	07/31/09	
2,4-Dichlorophenol	ND	U	5.0	0.50	0.3	1	07/30/09	07/31/09	
1,2,4-Trichlorobenzene	ND	U	5.0	0.78	70	1	07/30/09	07/31/09	
Naphthalene	ND	U	5.0	0.79	14	1	07/30/09	07/31/09	
2,6-Dichlorophenol	ND	U	10	0.72	0.2	1	07/30/09	07/31/09	
Hexachloropropene	ND	U	5.0	1.9		1	07/30/09	07/31/09	
4-Chloroaniline	ND	U	5.0	0.53	28	1	07/30/09	07/31/09	
Hexachlorobutadiene	ND	U	5.0	0.61	0.4	1	07/30/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: NA  
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank  
 Lab Code: JWG0902470-3  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodi-n-butylamine	ND U	5.0	0.67	0.006	1	07/30/09	07/31/09	
p-Phenylenediamine	ND U	20	1.1	1300	1	07/30/09	07/31/09	
4-Chloro-3-methylphenol	ND U	5.0	0.75	63	1	07/30/09	07/31/09	
2-Methylnaphthalene	ND U	5.0	0.74	28	1	07/30/09	07/31/09	
Hexachlorocyclopentadiene	ND U	5.0	0.41	50	1	07/30/09	07/31/09	
1,2,4,5-Tetrachlorobenzene	ND U	5.0	0.55	2.1	1	07/30/09	07/31/09	
Safrole	ND U	5.0	0.71		1	07/30/09	07/31/09	
2,4,6-Trichlorophenol	ND U	5.0	0.73	3.2	1	07/30/09	07/31/09	
2,4,5-Trichlorophenol	ND U	5.0	0.65	1	1	07/30/09	07/31/09	
Isosafrole	ND U	5.0	0.75		1	07/30/09	07/31/09	
2-Chloronaphthalene	ND U	5.0	0.71	560	1	07/30/09	07/31/09	
2-Nitroaniline	ND U	5.0	0.55	21	1	07/30/09	07/31/09	
1,4-Naphthoquinone	ND U	10	1.4		1	07/30/09	07/31/09	
1,3-Dinitrobenzene	ND U	10	1.5	0.7	1	07/30/09	07/31/09	
Acenaphthylene	ND U	5.0	0.58	210	1	07/30/09	07/31/09	
Dimethyl Phthalate	ND U	5.0	0.76	70000	1	07/30/09	07/31/09	
2,6-Dinitrotoluene	ND U	5.0	0.83	0.05	1	07/30/09	07/31/09	
Acenaphthene	ND U	5.0	0.99	20	1	07/30/09	07/31/09	
3-Nitroaniline	ND U	5.0	0.75	1.7	1	07/30/09	07/31/09	
2,4-Dinitrophenol	ND U	20	0.54	14	1	07/30/09	07/31/09	
Pentachlorobenzene	ND U	5.0	2.4	5.6	1	07/30/09	07/31/09	
Dibenzofuran	ND U	5.0	0.79	28	1	07/30/09	07/31/09	
4-Nitrophenol	ND U	20	0.93	56	1	07/30/09	07/31/09	
2,4-Dinitrotoluene	ND U	5.0	4.1	0.05	1	07/30/09	07/31/09	
2-Naphthylamine	ND U	5.0	1.1	0.0003	1	07/30/09	07/31/09	
2,3,4,6-Tetrachlorophenol	ND U	5.0	1.2	210	1	07/30/09	07/31/09	
1-Naphthylamine	ND U	5.0	1.1		1	07/30/09	07/31/09	
Fluorene	ND U	5.0	0.88	280	1	07/30/09	07/31/09	
4-Chlorophenyl Phenyl Ether	ND U	5.0	0.61		1	07/30/09	07/31/09	
Thionazin	ND U	10	0.81		1	07/30/09	07/31/09	
Diethyl Phthalate	ND U	5.0	4.1	5600	1	07/30/09	07/31/09	
5-Nitro-o-toluidine	ND U	5.0	1.0		1	07/30/09	07/31/09	
4-Nitroaniline	ND U	5.0	0.92	1.7	1	07/30/09	07/31/09	
2-Methyl-4,6-dinitrophenol	ND U	20	0.64		1	07/30/09	07/31/09	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J0903707  
 Date Collected: NA  
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank  
 Lab Code: JWG0902470-3  
 Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
N-Nitrosodiphenylamine†	ND U	5.0	0.96	7.1	1	07/30/09	07/31/09	
Diallate	ND U	5.0	1.0	0.6	1	07/30/09	07/31/09	
Phorate	ND U	5.0	0.88	1.4	1	07/30/09	07/31/09	
1,3,5-Trinitrobenzene	ND U	5.0	1.1	210	1	07/30/09	07/31/09	
4-Bromophenyl Phenyl Ether	ND UJ	5.0	0.67		1	07/30/09	07/31/09	J(3)
Phenacetin	ND U	5.0	0.89		1	07/30/09	07/31/09	
Hexachlorobenzene	ND U	5.0	0.63	1	1	07/30/09	07/31/09	
Dimethoate	ND U	5.0	0.90	1.4	1	07/30/09	07/31/09	
4-Aminobiphenyl	ND U	5.0	0.99		1	07/30/09	07/31/09	
Pentachlorophenol	ND U	20	0.67	1	1	07/30/09	07/31/09	
Pentachloronitrobenzene	ND U	5.0	1.5	0.1	1	07/30/09	07/31/09	
Pronamide	ND U	20	0.85	53	1	07/30/09	07/31/09	
Phenanthrene	ND U	5.0	0.70	210	1	07/30/09	07/31/09	
Disulfoton	ND U	5.0	0.52	0.3	1	07/30/09	07/31/09	
Dinoseb	ND U	5.0	0.61	7	1	07/30/09	07/31/09	
Anthracene	ND U	5.0	0.71	2100	1	07/30/09	07/31/09	
Methyl Parathion	ND U	10	1.1	1.8	1	07/30/09	07/31/09	
Di-n-butyl Phthalate	ND U	5.0	0.97	700	1	07/30/09	07/31/09	
Parathion	ND U	20	0.93	4.2	1	07/30/09	07/31/09	
Methapyrilene	ND U	5.0	1.5		1	07/30/09	07/31/09	
Isodrin	ND U	10	0.71		1	07/30/09	07/31/09	
Fluoranthene	ND U	5.0	0.66	280	1	07/30/09	07/31/09	
Pyrene	ND U	5.0	0.84	210	1	07/30/09	07/31/09	
Chlorobenzilate	ND U	10	0.84	0.1	1	07/30/09	07/31/09	
3,3'-Dimethylbenzidine	ND UJ	20	2.3	0.004	1	07/30/09	07/31/09	J(3)
Famphur	ND UJ	10	0.69	3.5	1	07/30/09	07/31/09	J(3)
p-Dimethylaminoazobenzene	ND U	5.0	0.89		1	07/30/09	07/31/09	
Butyl Benzyl Phthalate	ND U	10	1.1	140	1	07/30/09	07/31/09	
2-Acetylaminofluorene	ND U	5.0	0.90		1	07/30/09	07/31/09	
Kepone	ND U	50	4.2	0.004	1	07/30/09	07/31/09	
3,3'-Dichlorobenzidine	ND U	20	0.89	0.08	1	07/30/09	07/31/09	
Benz(a)anthracene	ND U	5.0	0.86	0.05	1	07/30/09	07/31/09	
Chrysene	ND U	5.0	0.87	4.8	1	07/30/09	07/31/09	
Bis(2-ethylhexyl) Phthalate	ND U	5.0	0.98	6	1	07/30/09	07/31/09	

Comments:

## Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

## Semi-Volatile Organic Compounds by GC/MS (Appendix II)

**Sample Name:** Method Blank  
**Lab Code:** JWG0902470-3  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8270C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Di-n-octyl Phthalate	ND	U	5.0	0.95	140	1	07/30/09	07/31/09	
Benzo(b)fluoranthene	ND	U	5.0	0.87	0.05	1	07/30/09	07/31/09	
Benzo(k)fluoranthene	ND	U	5.0	0.54	0.5	1	07/30/09	07/31/09	
7,12-Dimethylbenz(a)anthracene	ND	U	5.0	0.87		1	07/30/09	07/31/09	
Benzo(a)pyrene	ND	U	5.0	0.63	0.2	1	07/30/09	07/31/09	
3-Methylcholanthrene	ND	U	5.0	0.97		1	07/30/09	07/31/09	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.55	0.05	1	07/30/09	07/31/09	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	0.005	1	07/30/09	07/31/09	
Benzo(g,h,i)perylene	ND	U	5.0	0.91	210	1	07/30/09	07/31/09	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	31	10-77	Acceptable
Phenol-d6	16	10-51	Acceptable
Nitrobenzene-d5	60	32-106	Acceptable
2-Fluorobiphenyl	64	30-102	Acceptable
2,4,6-Tribromophenol	73	30-143	Acceptable
Terphenyl-d14	81	23-165	Acceptable

## † Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.  
N-Nitrosodiphenylamine This analyte can not be separated from Diphenylamine.

**Comments:**



## Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

## Organochlorine Pesticides by GC-ECD

**Sample Name:** LCS  
**Lab Code:** J0903707-001  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8081A

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
alpha-BHC	ND	U	0.021	0.0081	0.006	1	07/29/09	08/03/09	
gamma-BHC (Lindane)	ND	U	0.021	0.0084	0.2	1	07/29/09	08/03/09	
beta-BHC	ND	U	0.021	0.0087	0.02	1	07/29/09	08/03/09	
delta-BHC	ND	U	0.021	0.012	2.1	1	07/29/09	08/03/09	
Heptachlor	ND	U	0.021	0.0098	0.4	1	07/29/09	08/03/09	
Aldrin	ND	U	0.021	0.0070	0.002	1	07/29/09	08/03/09	
Heptachlor Epoxide	ND	U	0.021	0.0081	0.2	1	07/29/09	08/03/09	
gamma-Chlordane	ND	U	0.021	0.0077		1	07/29/09	08/03/09	
alpha-Chlordane	ND	U	0.021	0.0068		1	07/29/09	08/03/09	
4,4'-DDE	ND	U	0.021	0.0086	0.1	1	07/29/09	08/03/09	
Endosulfan I	ND	U	0.021	0.0091	42	1	07/29/09	08/03/09	
Dieldrin	ND	U	0.021	0.0075	0.002	1	07/29/09	08/03/09	
Endrin	ND	U	0.021	0.0092	2	1	07/29/09	08/03/09	
4,4'-DDD	ND	U	0.021	0.0081	0.1	1	07/29/09	08/03/09	
Endosulfan II	ND	U	0.021	0.0066	42	1	07/29/09	08/03/09	
4,4'-DDT	ND	U	0.021	0.014	0.1	1	07/29/09	08/03/09	
Endrin Aldehyde	ND	U	0.021	0.0087		1	07/29/09	08/03/09	
Methoxychlor	ND	U	0.041	0.012	40	1	07/29/09	08/03/09	
Endosulfan Sulfate	ND	U	0.021	0.0094		1	07/29/09	08/03/09	
Endrin Ketone	ND	U	0.021	0.0055		1	07/29/09	08/03/09	
Toxaphene	ND	U	0.52	0.52	3	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Tetrachloro-m-xylene	11	32-92	Outside Control Limits
Decachlorobiphenyl	6	13-104	Outside Control Limits

Comments: \_\_\_\_\_

## Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

## Organochlorine Pesticides by GC-ECD

**Sample Name:** LDSS  
**Lab Code:** J0903707-002  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8081A

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
alpha-BHC	ND	U	0.022	0.0084	0.006	1	07/29/09	08/03/09	
gamma-BHC (Lindane)	ND	U	0.022	0.0087	0.2	1	07/29/09	08/03/09	
beta-BHC	ND	U	0.022	0.0090	0.02	1	07/29/09	08/03/09	
delta-BHC	ND	U	0.022	0.012	2.1	1	07/29/09	08/03/09	
Heptachlor	ND	U	0.022	0.011	0.4	1	07/29/09	08/03/09	
Aldrin	ND	U	0.022	0.0072	0.002	1	07/29/09	08/03/09	
Heptachlor Epoxide	ND	U	0.022	0.0084	0.2	1	07/29/09	08/03/09	
gamma-Chlordane	ND	U	0.022	0.0079		1	07/29/09	08/03/09	
alpha-Chlordane	ND	U	0.022	0.0070		1	07/29/09	08/03/09	
4,4'-DDE	ND	U	0.022	0.0089	0.1	1	07/29/09	08/03/09	
Endosulfan I	ND	U	0.022	0.0094	42	1	07/29/09	08/03/09	
Dieldrin	ND	U	0.022	0.0077	0.002	1	07/29/09	08/03/09	
Endrin	ND	U	0.022	0.0095	2	1	07/29/09	08/03/09	
4,4'-DDD	ND	U	0.022	0.0084	0.1	1	07/29/09	08/03/09	
Endosulfan II	ND	U	0.022	0.0068	42	1	07/29/09	08/03/09	
4,4'-DDT	ND	U	0.022	0.014	0.1	1	07/29/09	08/03/09	
Endrin Aldehyde	ND	U	0.022	0.0090		1	07/29/09	08/03/09	
Methoxychlor	ND	U	0.043	0.012	40	1	07/29/09	08/03/09	
Endosulfan Sulfate	ND	U	0.022	0.0097		1	07/29/09	08/03/09	
Endrin Ketone	ND	U	0.022	0.0056		1	07/29/09	08/03/09	
Toxaphene	ND	U	0.53	0.53	3	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Tetrachloro-m-xylene	10	32-92	Outside Control Limits
Decachlorobiphenyl	7	13-104	Outside Control Limits

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

**Organochlorine Pesticides by GC-ECD**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902472-3  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8081A

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
alpha-BHC	ND	U	0.020	0.0079	0.006	1	07/29/09	08/03/09	
gamma-BHC (Lindane)	ND	U	0.020	0.0082	0.2	1	07/29/09	08/03/09	
beta-BHC	ND	U	0.020	0.0085	0.02	1	07/29/09	08/03/09	
delta-BHC	ND	U	0.020	0.011	2.1	1	07/29/09	08/03/09	
Heptachlor	ND	U	0.020	0.0096	0.4	1	07/29/09	08/03/09	
Aldrin	ND	U	0.020	0.0068	0.002	1	07/29/09	08/03/09	
Heptachlor Epoxide	ND	U	0.020	0.0079	0.2	1	07/29/09	08/03/09	
gamma-Chlordane	ND	U	0.020	0.0075		1	07/29/09	08/03/09	
alpha-Chlordane	ND	U	0.020	0.0066		1	07/29/09	08/03/09	
4,4'-DDE	ND	U	0.020	0.0084	0.1	1	07/29/09	08/03/09	
Endosulfan I	ND	U	0.020	0.0089	42	1	07/29/09	08/03/09	
Dieldrin	ND	U	0.020	0.0073	0.002	1	07/29/09	08/03/09	
Endrin	ND	U	0.020	0.0090	2	1	07/29/09	08/03/09	
4,4'-DDD	ND	U	0.020	0.0079	0.1	1	07/29/09	08/03/09	
Endosulfan II	ND	U	0.020	0.0064	42	1	07/29/09	08/03/09	
4,4'-DDT	ND	U	0.020	0.013	0.1	1	07/29/09	08/03/09	
Endrin Aldehyde	ND	U	0.020	0.0085		1	07/29/09	08/03/09	
Methoxychlor	ND	U	0.040	0.011	40	1	07/29/09	08/03/09	
Endosulfan Sulfate	ND	U	0.020	0.0092		1	07/29/09	08/03/09	
Endrin Ketone	ND	U	0.020	0.0053		1	07/29/09	08/03/09	
Toxaphene	ND	U	0.50	0.50	3	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Tetrachloro-m-xylene	49	32-92	Acceptable
Decachlorobiphenyl	76	13-104	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** 07/29/2009  
**Date Received:** 07/29/2009

**Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD**

**Sample Name:** LCS  
**Lab Code:** J0903707-001  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8082

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Aroclor 1016	ND	U	0.52	0.14	0.5	1	07/29/09	08/03/09	
Aroclor 1221	ND	U	0.52	0.23	0.5	1	07/29/09	08/03/09	
Aroclor 1232	ND	U	0.52	0.24	0.5	1	07/29/09	08/03/09	
Aroclor 1242	ND	U	0.52	0.13	0.5	1	07/29/09	08/03/09	
Aroclor 1248	ND	U	0.52	0.27	0.5	1	07/29/09	08/03/09	
Aroclor 1254	ND	U	0.52	0.38	0.5	1	07/29/09	08/03/09	
Aroclor 1260	ND	U	0.52	0.18	0.5	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Decachlorobiphenyl	7	24-120	Outside Control Limits

Comments: \_\_\_\_\_

Analytical Results

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

Service Request: J0903707  
 Date Collected: 07/29/2009  
 Date Received: 07/29/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: LDSS  
 Lab Code: J0903707-002  
 Extraction Method: EPA 3510C  
 Analysis Method: 8082

Units: ug/L  
 Basis: NA  
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Aroclor 1016	ND	U	0.53	0.14	0.5	1	07/29/09	08/03/09	
Aroclor 1221	ND	U	0.53	0.24	0.5	1	07/29/09	08/03/09	
Aroclor 1232	ND	U	0.53	0.25	0.5	1	07/29/09	08/03/09	
Aroclor 1242	ND	U	0.53	0.13	0.5	1	07/29/09	08/03/09	
Aroclor 1248	ND	U	0.53	0.28	0.5	1	07/29/09	08/03/09	
Aroclor 1254	ND	U	0.53	0.39	0.5	1	07/29/09	08/03/09	
Aroclor 1260	ND	U	0.53	0.18	0.5	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Decachlorobiphenyl	8	24-120	Outside Control Limits

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

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

**Service Request:** J0903707  
**Date Collected:** NA  
**Date Received:** NA

**Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD**

**Sample Name:** Method Blank  
**Lab Code:** JWG0902473-2  
**Extraction Method:** EPA 3510C  
**Analysis Method:** 8082

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Aroclor 1016	ND	U	0.50	0.13	0.5	1	07/29/09	08/03/09	
Aroclor 1221	ND	U	0.50	0.22	0.5	1	07/29/09	08/03/09	
Aroclor 1232	ND	U	0.50	0.23	0.5	1	07/29/09	08/03/09	
Aroclor 1242	ND	U	0.50	0.12	0.5	1	07/29/09	08/03/09	
Aroclor 1248	ND	U	0.50	0.26	0.5	1	07/29/09	08/03/09	
Aroclor 1254	ND	U	0.50	0.37	0.5	1	07/29/09	08/03/09	
Aroclor 1260	ND	U	0.50	0.17	0.5	1	07/29/09	08/03/09	

Surrogate Name	%Rec	Control Limits	Note
Decachlorobiphenyl	84	24-120	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** LCS  
**Lab Code:** J0903707-001

**Service Request:** J0903707  
**Date Collected:** 7/29/09 1200  
**Date Received:** 7/29/09

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	19.7	µg/L	2.0	0.4	1	8/ 3/09	8/9/09 07:00
Arsenic, Total	6020	92.4	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 07:00
Barium, Total	6020	203	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 07:00
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:52
Cadmium, Total	6020	3.04	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 07:00
Chromium, Total	6020	98.4	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 07:00
Cobalt, Total	6020	35.7	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:00
Copper, Total	6020	4.1	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 07:00
Iron, Total	6010B	4800	µg/L	50	4	1	8/ 3/09	8/4/09 18:27
Lead, Total	6020	1.3	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:00
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:32
Nickel, Total	6020	164	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 07:00
Selenium, Total	6020	3.7	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 07:00
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 07:00
Sodium, Total	6010B	1580	mg/L	5.0	0.2	10	8/ 3/09	8/5/09 21:46
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:00
Tin, Total	6010B	0.026 I	µg/L	0.040	0.003	1	8/ 3/09	8/4/09 18:27
Vanadium, Total	6020	58.4	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 07:00
Zinc, Total	6020	24	µg/L	10	4	1	8/ 3/09	8/9/09 07:00

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** LDSS  
**Lab Code:** J0903707-002

**Service Request:** J0903707  
**Date Collected:** 7/29/09 1230  
**Date Received:** 7/29/09

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	16.3	µg/L	2.0	0.4	1	8/ 3/09	8/9/09 07:05
Arsenic, Total	6020	79.3	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 07:05
Barium, Total	6020	268	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 07:05
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/10/09 21:57
Cadmium, Total	6020	1.62	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 07:05
Chromium, Total	6020	72.7	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 07:05
Cobalt, Total	6020	26.4	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:05
Copper, Total	6020	8.4	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 07:05
Iron, Total	6010B	5990	µg/L	50	4	1	8/ 3/09	8/4/09 18:34
Lead, Total	6020	2.6	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:05
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:33
Nickel, Total	6020	142	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 07:05
Selenium, Total	6020	5.0	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 07:05
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 07:05
Sodium, Total	6010B	1420	mg/L	5.0	0.2	10	8/ 3/09	8/5/09 21:51
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 07:05
Tin, Total	6010B	0.008 I	µg/L	0.040	0.003	1	8/ 3/09	8/4/09 18:34
Vanadium, Total	6020	40.0	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 07:05
Zinc, Total	6020	20	µg/L	10	4	1	8/ 3/09	8/9/09 07:05

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Jacksonville, City of  
**Project:** Trail Ridge  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J0903707-MB

**Service Request:** J0903707  
**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	0.4	1	8/ 3/09	8/9/09 04:40
Arsenic, Total	6020	ND U	µg/L	0.50	0.20	1	8/ 3/09	8/9/09 04:40
Barium, Total	6020	ND U	µg/L	2.0	0.5	1	8/ 3/09	8/9/09 04:40
Beryllium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Cadmium, Total	6020	ND U	µg/L	0.50	0.12	1	8/ 3/09	8/9/09 04:40
Chromium, Total	6020	ND U	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Cobalt, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Copper, Total	6020	ND U	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Iron, Total	6010B	ND U	µg/L	50	4	1	8/ 3/09	8/4/09 16:10
Lead, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Mercury, Total	7470A	ND U	µg/L	0.50	0.08	1	8/ 6/09	8/6/09 15:05
Nickel, Total	6020	<b>1.1</b> I	µg/L	2.0	0.3	1	8/ 3/09	8/9/09 04:40
Selenium, Total	6020	<b>1.3</b> I	µg/L	2.0	0.8	1	8/ 3/09	8/9/09 04:40
Silver, Total	6020	ND U	µg/L	0.50	0.08	1	8/ 3/09	8/9/09 04:40
Sodium, Total	6010B	ND U	mg/L	0.50	0.02	1	8/ 3/09	8/4/09 16:09
Thallium, Total	6020	ND U	µg/L	1.0	0.2	1	8/ 3/09	8/9/09 04:40
Tin, Total	6010B	ND U	µg/L	40	3	1	8/ 3/09	8/4/09 16:10
Vanadium, Total	6020	ND U	µg/L	5.0	1.2	1	8/ 3/09	8/9/09 04:40
Zinc, Total	6020	ND U	µg/L	10	4	1	8/ 3/09	8/9/09 04:40

**Comments:**

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903707  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** LCS  
**Lab Code :** J0903707-001  
**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	5	2.5	100	08/09/09 16:17	900	
Bicarbonate as CaCO3	mg/L (ppm)	310.1	100	32	20	08/04/09 14:30	6400	
Chloride	mg/L (ppm)	300.0	4	0.62	20	08/03/09 18:01	2100	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 12:00	17740	
Cyanide, Total	ug/L (ppb)	9012A	10	4	1	08/10/09 09:53	9.4	i
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	07/30/09 04:43	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 12:00	0.1	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 12:00	7.75	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	100	48	10	08/04/09 17:40	7200	
Sulfide	mg/L (ppm)	376.1	8	1.52	4	08/05/09 18:00	9.2	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 12:00	35.2	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 12:00	2.7	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903707  
**Date Collected :** 07/29/09  
**Date Received :** 07/29/09

Inorganic Parameters

**Sample Name :** LDSS  
**Lab Code :** J0903707-002  
**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	5	2.5	100	08/09/09 16:17	590	
Bicarbonate as CaCO3	mg/L (ppm)	310.1	50	16	10	08/04/09 14:30	4100	
Chloride	mg/L (ppm)	300.0	2	0.31	10	07/30/09 00:29	1400	
Conductivity (Field)	uMHOS/cm	120.1 (Field)	-	-	1	07/29/09 12:30	9803	
Cyanide, Total	ug/L (ppb)	9012A	10	4	1	08/10/09 09:53	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	07/30/09 04:58	U	
Oxygen, Dissolved (Field)	mg/L (ppm)	360.1	-	-	1	07/29/09 12:30	0.2	
pH (Field)	pH UNITS	150.1	-	-	1	07/29/09 12:30	7.72	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	100	48	10	08/04/09 17:40	5500	
Sulfide	mg/L (ppm)	376.1	8	1.52	4	08/05/09 18:00	12	
Temperature (Field)	DEG C	170.1	-	-	1	07/29/09 12:30	31.7	
Turbidity (Field)	NTU	180.1	-	-	1	07/29/09 12:30	1.3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

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

**Service Request :** J0903707  
**Date Collected :** NA  
**Date Received :** NA

Inorganic Parameters

**Sample Name :** Method Blank  
**Lab Code :** J0903707-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	0.025	1	08/09/09 16:17	U	
Bicarbonate as CaCO3	mg/L (ppm)	310.1	5	1.6	1	08/04/09 14:30	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	07/30/09 00:29	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	08/03/09 18:01	U	
Cyanide, Total	ug/L (ppb)	9012A	10	4	1	08/10/09 09:53	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	07/30/09 00:29	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	08/04/09 17:40	U	
Sulfide	mg/L (ppm)	376.1	2	0.38	1	08/05/09 18:00	U	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903707

**Surrogate Recovery Summary  
 Volatile Organic Compounds by GC/MS (Appendix II)**

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
LCS	J0903707-001	94	92	92	95
LDSS	J0903707-002	96	91	98	94
Trip Blank	J0903707-003	92	94	97	99
Method Blank	JWG0902499-4	88	95	99	94
Lab Control Sample	JWG0902499-3	85	94	91	95

**Surrogate Recovery Control Limits (%)**

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

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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  
**Sample Matrix:** Water

**Service Request:** J0903707  
**Date Extracted:** 07/31/2009  
**Date Analyzed:** 07/31/2009

**Lab Control Spike Summary**  
**Volatile Organic Compounds by GC/MS (Appendix II)**

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** JWG0902499

Lab Control Sample  
 JWG0902499-3  
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Dichlorodifluoromethane	17.8	20.0	89	69-138
Chloromethane	17.2	20.0	86	67-135
Vinyl Chloride	19.4	20.0	97	78-132
Bromomethane	19.6	20.0	98	79-130
Chloroethane	23.6	20.0	118	74-126
Trichlorofluoromethane	21.0	20.0	105	74-134
Acrolein	88.6	100	89	61-137
1,1-Dichloroethene	20.4	20.0	102	78-130
Acetone	90.9	100	91	67-133
Iodomethane (Methyl Iodide)	115	100	115	68-134
Carbon Disulfide	103	100	103	76-138
Acetonitrile	104	100	104	67-132
Allyl Chloride	20.1	20.0	101	68-128
Methylene Chloride	19.9	20.0	100	72-124
Acrylonitrile	89.0	100	89	77-127
trans-1,2-Dichloroethene	19.9	20.0	100	77-124
1,1-Dichloroethane	19.9	20.0	99	80-128
Vinyl Acetate	93.4	100	93	61-148
Chloroprene	19.6	20.0	98	81-132
cis-1,2-Dichloroethene	19.8	20.0	99	80-126
2,2-Dichloropropane	20.8	20.0	104	72-136
1,1-Dichloropropene	20.2	20.0	101	85-124
2-Butanone (MEK)	88.3	100	88	73-127
Propionitrile	93.1	100	93	77-131
Bromochloromethane	19.8	20.0	99	79-129
Methacrylonitrile	18.5	20.0	92	77-129
Chloroform	19.7	20.0	98	83-124
1,1,1-Trichloroethane (TCA)	20.0	20.0	100	79-124
Carbon Tetrachloride	19.7	20.0	98	81-125
Benzene	19.7	20.0	99	79-119
1,2-Dichloroethane (EDC)	19.5	20.0	98	80-124
Isobutyl Alcohol	356	400	89	62-139
Trichloroethene (TCE)	19.7	20.0	98	76-124
1,2-Dichloropropane	20.0	20.0	100	79-123
Dibromomethane	18.7	20.0	94	83-123
Methyl Methacrylate	17.6	20.0	88	79-128

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  
 Sample Matrix: Water

Service Request: J0903707  
 Date Extracted: 07/31/2009  
 Date Analyzed: 07/31/2009

Lab Control Spike Summary  
 Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B  
 Analysis Method: 8260B

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902499

Lab Control Sample  
 JWG0902499-3  
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Bromodichloromethane	19.3	20.0	97	81-123
cis-1,3-Dichloropropene	19.5	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	88.5	100	89	72-136
Toluene	19.4	20.0	97	86-117
trans-1,3-Dichloropropene	19.3	20.0	96	83-124
Ethyl Methacrylate	18.0	20.0	90	78-127
1,1,2-Trichloroethane	18.1	20.0	90	86-114
Tetrachloroethene (PCE)	20.1	20.0	100	80-121
1,3-Dichloropropane	18.3	20.0	91	88-117
2-Hexanone	85.8	100	86	71-138
Dibromochloromethane	18.5	20.0	92	82-121
1,2-Dibromoethane (EDB)	18.2	20.0	91	88-117
Chlorobenzene	19.1	20.0	96	86-113
1,1,1,2-Tetrachloroethane	19.0	20.0	95	85-117
Ethylbenzene	19.4	20.0	97	90-118
m,p-Xylenes	38.4	40.0	96	86-121
o-Xylene	19.6	20.0	98	89-119
Styrene	19.1	20.0	96	89-122
Bromoform	17.4	20.0	87	68-129
1,1,2,2-Tetrachloroethane	17.0	20.0	85	83-120
1,2,3-Trichloropropane	16.8	20.0	84	83-123
trans-1,4-Dichloro-2-butene	16.9	20.0	84	53-143
1,3-Dichlorobenzene	18.8	20.0	94	83-112
1,4-Dichlorobenzene	18.6	20.0	93	83-113
1,2-Dichlorobenzene	18.2	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP)	13.9	20.0	70	62-123
1,2,4-Trichlorobenzene	17.8	20.0	89	72-123
Hexachlorobutadiene	19.8	20.0	99	73-140
Naphthalene	19.1	20.0	96	59-135

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  
Sample Matrix: Water

Service Request: J0903707

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
LCS	J0903707-001	118
LDSS	J0903707-002	109
Method Blank	JWG0902511-3	118
Lab Control Sample	JWG0902511-1	116
Duplicate Lab Control Sample	JWG0902511-2	123

Surrogate Recovery Control Limits (%)

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

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

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



## QA/QC Report

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

Service Request: J0903707  
 Date Extracted: 08/04/2009  
 Date Analyzed: 08/05/2009

Lab Control Spike/Duplicate 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: JWG0902511

Analyte Name	Lab Control Sample JWG0902511-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902511-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.312	0.250	125	0.322	0.250	129	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP)	0.327	0.250	131 *	0.332	0.250	133 *	70-130	2	20

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  
 Sample Matrix: Water

Service Request: J0903707

**Surrogate Recovery Summary  
 Semi-Volatile Organic Compounds by GC/MS (Appendix II)**

Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
LCS	J0903707-001	23	23	43 D	42	47	28
LDSS	J0903707-002	28	24	54	59	66	40
Method Blank	JWG0902470-3	31	16	60	64	73	81
Lab Control Sample	JWG0902470-1	33	18	59	70	74	74
Duplicate Lab Control Sample	JWG0902470-2	39	20	67	77	83	81

**Surrogate Recovery Control Limits (%)**

Sur1 = 2-Fluorophenol	10-77	Sur5 = 2,4,6-Tribromophenol	30-143
Sur2 = Phenol-d6	10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5	32-106		
Sur4 = 2-Fluorobiphenyl	30-102		

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  
 Sample Matrix: Water

Service Request: J0903707  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/31/2009

Lab Control Spike/Duplicate Lab Control Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902470

Analyte Name	Lab Control Sample JWG0902470-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902470-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Bis(2-chloroethyl) Ether	23.3	50.0	47	28.0	50.0	56	41-99	18	30
Phenol	13.1	50.0	26	15.4	50.0	31	12-54	16	30
2-Chlorophenol	31.1	50.0	62	36.4	50.0	73	35-101	16	30
1,3-Dichlorobenzene	23.3	50.0	47	26.0	50.0	52	30-119	11	30
1,4-Dichlorobenzene	23.1	50.0	46	28.3	50.0	57	31-119	20	30
1,2-Dichlorobenzene	25.5	50.0	51	30.1	50.0	60	32-123	16	30
Bis(2-chloroisopropyl) Ether	28.2	50.0	56	33.2	50.0	66	31-94	16	30
Benzyl alcohol	22.1	50.0	44	26.0	50.0	52	32-110	16	30
2-Methylphenol	27.7	50.0	55	31.4	50.0	63	21-100	13	30
Hexachloroethane	21.9	50.0	44	27.2	50.0	54	19-113	21	30
N-Nitrosodi-n-propylamine	36.4	50.0	73	42.2	50.0	84	43-103	15	30
4-Methylphenol	52.7	75.0	70	59.2	75.0	79	15-95	12	30
Nitrobenzene	31.2	50.0	62	36.3	50.0	73	36-116	15	30
Isophorone	35.7	50.0	71	40.3	50.0	81	46-106	12	30
2-Nitrophenol	33.9	50.0	68	38.0	50.0	76	40-120	11	30
2,4-Dimethylphenol	29.8	50.0	60	34.2	50.0	68	38-110	14	30
bis(2-Chloroethoxy)methane	34.0	50.0	68	38.1	50.0	76	47-100	11	30
2,4-Dichlorophenol	37.1	50.0	74	42.3	50.0	85	36-117	13	30
Naphthalene	29.1	50.0	58	32.2	50.0	64	40-97	10	30
4-Chloroaniline	33.7	50.0	67	38.5	50.0	77	39-110	13	30
Hexachlorobutadiene	23.4	50.0	47	27.6	50.0	55	20-110	16	30
4-Chloro-3-methylphenol	34.9	50.0	70	41.0	50.0	82	36-117	16	30
2-Methylnaphthalene	30.8	50.0	62	34.3	50.0	69	46-110	11	30
1-Methylnaphthalene	35.2	50.0	70	39.5	50.0	79	50-150	12	30
Hexachlorocyclopentadiene	22.1	50.0	44	25.5	50.0	51	23-115	14	30
2,4,6-Trichlorophenol	35.2	50.0	70	38.6	50.0	77	41-115	9	30
2,4,5-Trichlorophenol	40.1	50.0	80	45.2	50.0	90	47-113	12	30
2-Chloronaphthalene	33.1	50.0	66	36.9	50.0	74	47-106	11	30
2-Nitroaniline	33.3	50.0	67	38.7	50.0	77	33-94	15	30
Acenaphthylene	33.9	50.0	68	38.0	50.0	76	45-99	11	30
Dimethyl Phthalate	42.2	50.0	84	47.6	50.0	95	32-119	12	30
2,6-Dinitrotoluene	40.3	50.0	81	43.9	50.0	88	55-121	8	30
Acenaphthene	34.9	50.0	70	39.0	50.0	78	42-106	11	30
3-Nitroaniline	35.0	50.0	70	38.5	50.0	77	25-91	10	30
2,4-Dinitrophenol	31.1	50.0	62	36.6	50.0	73	27-128	16	30
Dibenzofuran	38.6	50.0	77	43.0	50.0	86	49-103	11	30

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  
 Sample Matrix: Water

Service Request: J0903707  
 Date Extracted: 07/30/2009  
 Date Analyzed: 07/31/2009

Lab Control Spike/Duplicate Lab Control Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C  
 Analysis Method: 8270C

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902470

Analyte Name	Lab Control Sample JWG0902470-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902470-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
4-Nitrophenol	14.0	50.0	28	16.2	50.0	32	10-86	15	30
2,4-Dinitrotoluene	40.6	50.0	81	44.8	50.0	90	54-121	10	30
Fluorene	41.1	50.0	82	43.4	50.0	87	54-97	5	30
4-Chlorophenyl Phenyl Ether	43.9	50.0	88	49.2	50.0	98	53-108	11	30
Diethyl Phthalate	43.9	50.0	88	49.1	50.0	98	56-108	11	30
4-Nitroaniline	39.1	50.0	78	43.9	50.0	88	44-102	12	30
2-Methyl-4,6-dinitrophenol	39.9	50.0	80	44.7	50.0	89	46-117	11	30
N-Nitrosodiphenylamine	18.1	50.0	36	19.9	50.0	40	30-122	10	30
4-Bromophenyl Phenyl Ether	48.4	50.0	97	53.6	50.0	107	63-123	10	30
Hexachlorobenzene	37.9	50.0	76	40.1	50.0	80	55-110	6	30
Pentachlorophenol	36.6	50.0	73	44.5	50.0	89	35-120	19	30
Phenanthrene	36.6	50.0	73	41.1	50.0	82	49-110	12	30
Anthracene	37.3	50.0	75	41.0	50.0	82	50-104	10	30
Carbazole	37.7	50.0	75	41.6	50.0	83	48-118	10	30
Di-n-butyl Phthalate	43.7	50.0	87	47.8	50.0	96	57-118	9	30
Fluoranthene	39.9	50.0	80	43.5	50.0	87	48-110	9	30
Pyrene	39.9	50.0	80	43.9	50.0	88	35-110	9	30
Butyl Benzyl Phthalate	39.9	50.0	80	43.7	50.0	87	40-117	9	30
3,3'-Dichlorobenzidine	34.1	50.0	68	38.1	50.0	76	30-112	11	30
Benz(a)anthracene	38.9	50.0	78	43.3	50.0	87	42-114	11	30
Chrysene	37.6	50.0	75	41.2	50.0	82	50-113	9	30
Bis(2-ethylhexyl) Phthalate	43.5	50.0	87	47.6	50.0	95	41-127	9	30
Di-n-octyl Phthalate	41.9	50.0	84	45.7	50.0	91	35-139	9	30
Benzo(b)fluoranthene	35.4	50.0	71	39.0	50.0	78	56-110	10	30
Benzo(k)fluoranthene	49.1	50.0	98	54.0	50.0	108	48-110	10	30
Benzo(a)pyrene	41.3	50.0	83	45.0	50.0	90	46-110	9	30
Indeno(1,2,3-cd)pyrene	42.6	50.0	85	46.5	50.0	93	54-115	9	30
Dibenz(a,h)anthracene	42.7	50.0	85	46.3	50.0	93	51-125	8	30
Benzo(g,h,i)perylene	44.0	50.0	88	47.6	50.0	95	53-116	8	30

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  
 Sample Matrix: Water

Service Request: J0903707

**Surrogate Recovery Summary**  
**Organochlorine Pesticides by GC-ECD**

Extraction Method: EPA 3510C  
 Analysis Method: 8081A

Units: PERCENT  
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
LCS	J0903707-001	11 #	6 #
LDSS	J0903707-002	10 #	7 #
Method Blank	JWG0902472-3	49	76
Lab Control Sample	JWG0902472-1	39	54
Duplicate Lab Control Sample	JWG0902472-2	44	58

**Surrogate Recovery Control Limits (%)**

---

Sur1 = Tetrachloro-m-xylene	32-92
Sur2 = Decachlorobiphenyl	13-104

---

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  
 Sample Matrix: Water

Service Request: J0903707  
 Date Extracted: 07/29/2009  
 Date Analyzed: 08/03/2009

Lab Control Spike/Duplicate Lab Control Spike Summary  
 Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 3510C  
 Analysis Method: 8081A

Units: ug/L  
 Basis: NA  
 Level: Low  
 Extraction Lot: JWG0902472

Analyte Name	Lab Control Sample JWG0902472-1 Lab Control Spike			Duplicate Lab Control Sample JWG0902472-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
alpha-BHC	0.233	0.400	58	0.279	0.400	70	56-104	18	30
gamma-BHC (Lindane)	0.230	0.400	58	0.277	0.400	69	57-101	19	30
beta-BHC	0.252	0.400	63	0.322	0.400	81	55-97	24	30
delta-BHC	0.196	0.400	49	0.240	0.400	60	31-105	20	30
Heptachlor	0.267	0.400	67	0.339	0.400	85	52-100	24	30
Aldrin	0.202	0.400	51	0.244	0.400	61	45-108	19	30
Heptachlor Epoxide	0.265	0.400	66	0.328	0.400	82	59-103	21	30
gamma-Chlordane	0.264	0.400	66	0.329	0.400	82	53-107	22	30
alpha-Chlordane	0.273	0.400	68	0.342	0.400	86	54-104	22	30
4,4'-DDE	0.274	0.400	69	0.348	0.400	87	58-114	24	30
Endosulfan I	0.273	0.400	68	0.337	0.400	84	61-104	21	30
Dieldrin	0.282	0.400	71	0.353	0.400	88	57-111	22	30
Endrin	0.288	0.400	72	0.367	0.400	92	57-117	24	30
4,4'-DDD	0.260	0.400	65	0.324	0.400	81	56-116	22	30
Endosulfan II	0.282	0.400	71	0.361	0.400	90	50-106	25	30
4,4'-DDT	0.279	0.400	70	0.361	0.400	90	41-115	26	30
Endrin Aldehyde	0.281	0.400	70	0.374	0.400	94	51-108	28	30
Methoxychlor	0.286	0.400	72	0.361	0.400	90	43-123	23	30
Endosulfan Sulfate	0.290	0.400	73	0.381	0.400	95	56-107	27	30
Endrin Ketone	0.281	0.400	70	0.369	0.400	92	46-101	27	30

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  
Sample Matrix: Water

Service Request: J0903707

Surrogate Recovery Summary  
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method: EPA 3510C  
Analysis Method: 8082

Units: PERCENT  
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
LCS	J0903707-001	7 #
LDSS	J0903707-002	8 #
Method Blank	JWG0902473-2	84
Lab Control Sample	JWG0902473-1	74

Surrogate Recovery Control Limits (%)

---

Sur1 = Decachlorobiphenyl 24-120

---

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  
Sample Matrix: Water

Service Request: J0903707  
Date Extracted: 07/29/2009  
Date Analyzed: 08/03/2009

Lab Control Spike Summary  
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method: EPA 3510C  
Analysis Method: 8082

Units: ug/L  
Basis: NA  
Level: Low  
Extraction Lot: JWG0902473

Lab Control Sample  
JWG0902473-1

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	3.04	4.00	76	39-116
Aroclor 1260	2.75	4.00	69	41-118

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  
**Sample Matrix:** Water

**Service Request:** J0903707  
**Date Analyzed:** 8/ 4/09

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample			% Rec Limits
		Result	Expected	% Rec	
Sodium, Total	6010B	9.70	10.0	97	80 - 120

Comments: \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903707  
**Date Analyzed:** 8/ 6/09

**Lab Control Sample Summary**  
**Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903707-LCS1			Duplicate Lab Control Sample J0903707-DLCS1			% Rec Limits	RPD	RPD Limit
		Result	Expected	% Rec	Result	Expected	% Rec			
Mercury, Total	7470A	5.26	5.00	105	4.89	5.00	98	80 - 120	7	20

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request:** J0903707  
**Date Analyzed:** 8/ 4/09 -  
 8/ 9/09

**Lab Control Sample Summary  
 Inorganic Parameters**

**Units:** µg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample J0903707-LCS2			% Rec Limits
		Result	Expected	% Rec	
Antimony, Total	6020	51.0	50.0	102	80 - 120
Arsenic, Total	6020	50.8	50.0	102	80 - 120
Barium, Total	6020	51.8	50.0	104	80 - 120
Beryllium, Total	6020	48.9	50.0	98	80 - 120
Cadmium, Total	6020	51.1	50.0	102	80 - 120
Chromium, Total	6020	50.6	50.0	101	80 - 120
Cobalt, Total	6020	51.2	50.0	102	80 - 120
Copper, Total	6020	50.5	50.0	101	80 - 120
Iron, Total	6010B	1950	2000	98	80 - 120
Lead, Total	6020	52.0	50.0	104	80 - 120
Nickel, Total	6020	52.0	50.0	104	80 - 120
Selenium, Total	6020	48.6	50.0	97	80 - 120
Silver, Total	6020	51.1	50.0	102	80 - 120
Thallium, Total	6020	51.6	50.0	103	80 - 120
Tin, Total	6010B	5040	5000	101	80 - 120
Vanadium, Total	6020	52.2	50.0	104	80 - 120
Zinc, Total	6020	95.6	100	96	80 - 120

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

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

**Service Request :** J0903707  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 07/30-08/10/09

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** J0903707-LCS  
**Test Notes :**

**Basis :** NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.09	102	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Chloride	mg/L (ppm)	300.0	100	103	103	90-110	
Cyanide, Total	ug/L (ppb)	9012A	100	92.1	92	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.12	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	293	98	85-115	
Sulfide	mg/L (ppm)	376.1	10.8	10.8	100	85-115	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

**Service Request :** J0903707  
**Date Collected :** NA  
**Date Received :** NA  
**Date Extracted :** NA  
**Date Analyzed :** 08/05/09

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Laboratory Control Sample Duplicate  
**Lab Code :** J0903707-LCSD  
**Test Notes :**

**Basis :** NA

<b>Analyte</b>	<b>Units</b>	<b>Analysis Method</b>	<b>True Value</b>	<b>Result</b>	<b>Percent Recovery</b>	<b>CAS Percent Recovery Acceptance Limits</b>	<b>Result Notes</b>
Sulfide	mg/L (ppm)	376.1	10.8	10.8	100	85-115	

**Columbia Analytical Services, Inc.**  
Cooler Receipt and Preservation Form

Client: HDR Service Request # 50905707  
 Project: TRAIL RIDGE Leachrate  
 Cooler received on 7/29/09 and opened on 7/29/09 by 880  
 COURIER:  CAS  UPS  FEDEX  DHL  CLIENT Tracking # \_\_\_\_\_

- |    |  |                                      |                                     |                                      |
|----|--|--------------------------------------|-------------------------------------|--------------------------------------|
| 1  | Were custody seals on outside of cooler?   | Yes                                  | <input checked="" type="radio"/> No | N/A                                  |
| 2  | Were seals intact, signed and dated?   | Yes                                  | No                                  | <input checked="" type="radio"/> N/A |
| 3  | Were custody papers properly filled out?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 4  | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)                              |                                      |                                     | <u>2.0</u>                           |
| 5  | Correct Temperature?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 6  | Were Ice or Ice Packs present  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 7  | Did all bottles arrive in good condition (unbroken, etc....)?                                    | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 8  | Were all bottle labels complete (sample ID, preservation, etc....)?                              | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 9  | Did all bottle labels and tags agree with custody papers?  | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 10 | Were the correct bottles used for the tests indicated?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 11 | Were all of the preserved bottles received with the appropriate preservative?                    | Yes                                  | <input checked="" type="radio"/> No | N/A                                  |
|    | <u>HNO3 pH&lt;2</u> <u>H2SO4 pH&lt;2</u> <u>ZnAc2/NaOH pH&gt;9</u> <u>NaOH pH&gt;12</u> HCl pH<2 |                                      |                                     |                                      |
|    | <small>Preservative additions noted below</small>  |                                      |                                     |                                      |
| 12 | Were all samples received within analysis holding times?   | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below                        | <input checked="" type="radio"/> Yes | No                                  | N/A                                  |
| 14 | Where did the bottles originate?   | <input checked="" type="radio"/> CAS | Client                              |                                      |

7/29/09  
@  
1620

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials
<u>LCS</u>	<u>HNO3</u>	<u>SMOT-6B</u>	<u>1.0 ml</u>	<u>880</u>
<u>LASS</u>	<u>HNO3</u>			

Additional comments and/or explanation of all discrepancies noted above:  
TRIP BLANK NOT AW COG

Client approval to run samples if discrepancies noted: \_\_\_\_\_ Date: 6/1

SR #: J 0903207

Date: 7/20/09

Initials: SRO

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

Sample #	Req. pH	Pres.	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				
Container	40ml	40ml	40ml	40ml	125ml	125ml	125ml	125ml	250ml	250ml	250ml	250ml	250ml	250ml	250ml	500ml	500ml	500ml	500ml	1L	1L	1L	1L	1L	1L	20z	4oz	8oz	5g	100ml	Misc.					
	G	G	G	G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	G	G	G	ENC	P	Misc.				
	N/A	HCl	Sodium Thiosulfate	H2SO4	HCl	H2SO4	HNO3	H2SO4	H2SO4	HNO3	Zn Acetate	NaOH	NaOH	NaOH	NaOH	HNO3	HNO3	H2SO4	H2SO4	HNO3	HNO3	HNO3	HCl	H2SO4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
-001	3	3																																		
-002	3	3																																		
-003	3	3																																		
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Columbia Analytical Services  
9143 Philips Highway, Suite 200  
Jacksonville, FL 32256  
Tel 904-739-2277  
Fax 904-739-2011

# **Appendix A**

## **Subcontracted Analytical Results**

**Environmental Conservation Laboratories, Inc.**

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314

FAX: 407.850.6945



www.encolabs.com

Friday, August 7, 2009

Columbia Analytical Svcs. (CO009)

Attn: Craig Myers

9143 Philips Highway, Suite 200

Jacksonville, FL 32256

**RE: Laboratory Results for  
Project Number: J0903707, Project Name/Desc: J0903707  
ENCO Workorder: A903787**

Dear Craig Myers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, July 31, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ronald Wambles', written in a cursive style.

Ronald Wambles  
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 13.



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**SAMPLE SUMMARY/LABORATORY CHRONICLE**

Client ID:	J0903707-001 (LCS)	Lab ID:	A903787-01	Sampled:	07/29/09 12:00	Received:	07/31/09 08:00
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8141B	08/05/09	09/14/09	08/05/09	09:09	8/7/2009 00:06		
EPA 8151A	08/05/09	09/09/09	07/31/09	16:04	8/4/2009 19:01		

Client ID:	J0903707-002 (LDSS)	Lab ID:	A903787-02	Sampled:	07/29/09 12:00	Received:	07/31/09 08:00
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8141B	08/05/09	09/14/09	08/05/09	09:09	8/7/2009 01:08		
EPA 8151A	08/05/09	09/09/09	07/31/09	16:04	8/4/2009 19:25		



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**SAMPLE DETECTION SUMMARY**

**No positive results detected.**



www.encolabs.com

### ANALYTICAL RESULTS

Description: J0903707-001 (LCS)

Lab Sample ID: A903787-01

Received: 07/31/09 08:00

Matrix: Water

Sampled: 07/29/09 12:00

Work Order: A903787

Project: J0903707

Sampled By:

#### Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9G31021	EPA 8151A	08/04/09 19:01	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9G31021	EPA 8151A	08/04/09 19:01	RGG	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9G31021	EPA 8151A	08/04/09 19:01	RGG	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9G31021	EPA 8151A	08/04/09 19:01	RGG	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9G31021	EPA 8151A	08/04/09 19:01	RGG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4-DCAA	3.2	1	2.00	158 %	68-139	9G31021	EPA 8151A	08/04/09 19:01	RGG	QS-06



www.encolabs.com

Description: J0903707-001 (LCS)

Lab Sample ID: A903787-01

Received: 07/31/09 08:00

Matrix: Water

Sampled: 07/29/09 12:00

Work Order: A903787

Project: J0903707

Sampled By:

Organophosphorus Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Azinphos-methyl [86-50-0] ^	0.15	U	ug/L	1	0.15	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Bolstar [35400-43-2] ^	0.096	U	ug/L	1	0.096	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Chlorpyrifos [2921-88-2] ^	0.078	U	ug/L	1	0.078	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Coumaphos [56-72-4] ^	0.15	U	ug/L	1	0.15	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Demeton [8065-48-3]	0.064	U	ug/L	1	0.064	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Diazinon [333-41-5] ^	0.065	U	ug/L	1	0.065	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Dichlorofenthion [97-17-6] ^	0.071	U	ug/L	1	0.071	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Dichlorvos [62-73-7] ^	0.17	U	ug/L	1	0.17	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	QL-02
Dimethoate [60-51-5] ^	0.12	U	ug/L	1	0.12	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Disulfoton [298-04-4] ^	0.054	U	ug/L	1	0.054	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
EPN [2104-64-5] ^	0.14	U	ug/L	1	0.14	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Ethion [563-12-2] ^	0.12	U	ug/L	1	0.12	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Ethoprop [13194-48-4] ^	0.066	U	ug/L	1	0.066	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Ethyl Parathion [56-38-2] ^	0.11	U	ug/L	1	0.11	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Fensulfothion [115-90-2] ^	0.11	U	ug/L	1	0.11	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Fenthion [55-38-9] ^	0.097	U	ug/L	1	0.097	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Malathion [121-75-5] ^	0.10	U	ug/L	1	0.10	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Merphos [150-50-5] ^	0.26	U	ug/L	1	0.26	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Methyl parathion [298-00-0] ^	0.11	U	ug/L	1	0.11	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Mevinphos [7786-34-7] ^	0.19	U	ug/L	1	0.19	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Monocrotophos [6923-22-4] ^	0.060	U	ug/L	1	0.060	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Naled [300-76-5] ^	0.24	U	ug/L	1	0.24	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Phorate [298-02-2] ^	0.054	U	ug/L	1	0.054	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Ronnel [299-84-3] ^	0.087	U	ug/L	1	0.087	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Stirophos (Tetrachlorvinphos) [22248-79-9] ^	0.091	U	ug/L	1	0.091	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Sulfotep [3689-24-5] ^	0.080	U	ug/L	1	0.080	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	
TEPP [107-49-3] ^	0.18	U	ug/L	1	0.18	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	QL-02
Tokuthion (Prothiofos) [34643-46-4] ^	0.092	U	ug/L	1	0.092	2.0	9H04004	EPA 8141B	08/07/09 00:06	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Tributyl Phosphate	1.2	1	2.00	61 %	17-139	9H04004	EPA 8141B	08/07/09 00:06	JJB	
Triphenyl phosphate	0.81	1	2.00	41 %	22-165	9H04004	EPA 8141B	08/07/09 00:06	JJB	

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Description: J0903707-002 (LDSS)

Lab Sample ID: A903787-02

Received: 07/31/09 08:00

Matrix: Water

Sampled: 07/29/09 12:00

Work Order: A903787

Project: J0903707

Sampled By:

**Chlorinated Herbicides by GC**

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9G31021	EPA 8151A	08/04/09 19:25	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9G31021	EPA 8151A	08/04/09 19:25	RGG	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9G31021	EPA 8151A	08/04/09 19:25	RGG	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9G31021	EPA 8151A	08/04/09 19:25	RGG	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9G31021	EPA 8151A	08/04/09 19:25	RGG	
<b>Surrogates</b>	<b>Results</b>	<b>DF</b>	<b>Spike Lvl</b>	<b>% Rec</b>	<b>% Rec Limits</b>	<b>Batch</b>	<b>Method</b>	<b>Analyzed</b>	<b>By</b>	<b>Notes</b>	
2,4-DCAA	3.0	1	2.00	148 %	68-139	9G31021	EPA 8151A	08/04/09 19:25	RGG	QS-06	



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Description: J0903707-002 (LDSS)

Lab Sample ID: A903787-02

Received: 07/31/09 08:00

Matrix: Water

Sampled: 07/29/09 12:00

Work Order: A903787

Project: J0903707

Sampled By:

Organophosphorus Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Azinphos-methyl [86-50-0] ^	0.17	U	ug/L	1	0.17	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Bolstar [35400-43-2] ^	0.11	U	ug/L	1	0.11	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Chlorpyrifos [2921-88-2] ^	0.087	U	ug/L	1	0.087	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Coumaphos [56-72-4] ^	0.17	U	ug/L	1	0.17	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Demeton [8065-48-3]	0.071	U	ug/L	1	0.071	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Diazinon [333-41-5] ^	0.072	U	ug/L	1	0.072	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Dichlorofenthion [97-17-6] ^	0.079	U	ug/L	1	0.079	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Dichlorvos [62-73-7] ^	0.19	U	ug/L	1	0.19	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	QL-02
Dimethoate [60-51-5] ^	0.13	U	ug/L	1	0.13	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Disulfoton [298-04-4] ^	0.060	U	ug/L	1	0.060	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
EPN [2104-64-5] ^	0.16	U	ug/L	1	0.16	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Ethion [563-12-2] ^	0.13	U	ug/L	1	0.13	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Ethoprop [13194-48-4] ^	0.073	U	ug/L	1	0.073	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Ethyl Parathion [56-38-2] ^	0.12	U	ug/L	1	0.12	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Fensulfothion [115-90-2] ^	0.12	U	ug/L	1	0.12	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Fenthion [55-38-9] ^	0.11	U	ug/L	1	0.11	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Malathion [121-75-5] ^	0.11	U	ug/L	1	0.11	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Merphos [150-50-5] ^	0.29	U	ug/L	1	0.29	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Methyl parathion [298-00-0] ^	0.12	U	ug/L	1	0.12	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Mevinphos [7786-34-7] ^	0.21	U	ug/L	1	0.21	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Monocrotophos [6923-22-4] ^	0.067	U	ug/L	1	0.067	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Naled [300-76-5] ^	0.27	U	ug/L	1	0.27	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Phorate [298-02-2] ^	0.060	U	ug/L	1	0.060	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Ronnel [299-84-3] ^	0.097	U	ug/L	1	0.097	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Stirophos (Tetrachlorvinphos) [22248-79-9] ^	0.10	U	ug/L	1	0.10	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Sulfotep [3689-24-5] ^	0.089	U	ug/L	1	0.089	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	
TEPP [107-49-3] ^	0.20	U	ug/L	1	0.20	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	QL-02
Tokuthion (Prothiofos) [34643-46-4] ^	0.10	U	ug/L	1	0.10	2.2	9H04004	EPA 8141B	08/07/09 01:08	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Tributyl Phosphate	1.8	1	2.22	82 %	17-139	9H04004	EPA 8141B	08/07/09 01:08	JJB	
Triphenyl phosphate	0.98	1	2.22	44 %	22-165	9H04004	EPA 8141B	08/07/09 01:08	JJB	

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**QUALITY CONTROL**

**Chlorinated Herbicides by GC - Quality Control**

Batch 9G31021 - EPA 3510C

**Blank (9G31021-BLK1)**

Prepared: 07/31/2009 16:01 Analyzed: 08/04/2009 12:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.053	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.056	U	0.50	ug/L							
2,4-D	0.091	U	0.50	ug/L							
2,4-DB	0.30	U	0.50	ug/L							
3,5-DCBA	0.069	U	0.50	ug/L							
4-Nitrophenol	0.016	U	0.50	ug/L							
Acifluorfen	0.19	U	0.50	ug/L							
Bentazon	0.15	U	0.50	ug/L							
Chloramben	0.064	U	0.50	ug/L							
Dacthal	0.036	U	0.50	ug/L							
Dalapon	0.078	U	0.50	ug/L							
Dicamba	0.050	U	0.50	ug/L							
Dichlorprop	0.22	U	0.50	ug/L							
Dinoseb	0.28	U	0.50	ug/L							
MCPA	3.8	U	50	ug/L							
MCPP	4.9	U	50	ug/L							
Pentachlorophenol	0.043	U	0.50	ug/L							
Picloram	0.031	U	0.50	ug/L							
Surrogate: 2,4-DCAA [2C]	2.5			ug/L	2.00		127	68-139			

**LCS (9G31021-BS1)**

Prepared: 07/31/2009 16:01 Analyzed: 08/04/2009 12:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.7		0.50	ug/L	2.00		86	62-145			
2,4,5-TP (Silvex)	1.7		0.50	ug/L	2.00		87	38-193			
2,4-D	1.8		0.50	ug/L	2.00		90	62-144			
2,4-DB	2.3		0.50	ug/L	2.00		115	46-185			
3,5-DCBA	2.0		0.50	ug/L	2.00		101	62-140			
4-Nitrophenol	2.1		0.50	ug/L	2.00		105	10-184			
Acifluorfen	1.7		0.50	ug/L	2.00		86	10-162			
Bentazon	1.6		0.50	ug/L	2.00		80	38-142			
Chloramben	0.93		0.50	ug/L	2.00		47	10-177			
Dacthal	1.5		0.50	ug/L	2.00		74	41-137			
Dalapon	1.1		0.50	ug/L	2.00		57	10-165			
Dicamba	1.9		0.50	ug/L	2.00		94	50-151			
Dichlorprop	1.8		0.50	ug/L	2.00		92	50-174			
Dinoseb	1.4		0.50	ug/L	2.00		69	10-179			
MCPA	170		50	ug/L	200		85	53-141			
MCPP	190		50	ug/L	200		94	35-180			
Pentachlorophenol	1.4		0.50	ug/L	2.00		72	44-144			
Picloram	1.4		0.50	ug/L	2.00		72	23-174			
Surrogate: 2,4-DCAA [2C]	2.6			ug/L	2.00		130	68-139			

**Matrix Spike (9G31021-MS1)**

Prepared: 07/31/2009 16:01 Analyzed: 08/04/2009 12:59

Source: A903702-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**QUALITY CONTROL**

**Chlorinated Herbicides by GC - Quality Control**

Batch 9G31021 - EPA 3510C

Matrix Spike (9G31021-MS1) Continued

Prepared: 07/31/2009 16:01 Analyzed: 08/04/2009 12:59

Source: A903702-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.9		0.50	ug/L	2.00	0.053 U	93	62-145			
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.056 U	93	38-193			
2,4-D	1.9		0.50	ug/L	2.00	0.091 U	96	62-144			
2,4-DB	2.3		0.50	ug/L	2.00	0.30 U	116	46-185			
3,5-DCBA	2.2		0.50	ug/L	2.00	0.069 U	110	62-140			
4-Nitrophenol	2.3		0.50	ug/L	2.00	0.016 U	117	10-184			
Acifluorfen	1.9		0.50	ug/L	2.00	0.19 U	96	10-162			
Bentazon	1.7		0.50	ug/L	2.00	0.15 U	84	38-142			
Chloramben	1.0		0.50	ug/L	2.00	0.064 U	52	10-177			
Dacthal	1.5		0.50	ug/L	2.00	0.036 U	77	47-137			
Dalapon	1.4		0.50	ug/L	2.00	0.078 U	72	10-165			
Dicamba	2.0		0.50	ug/L	2.00	0.050 U	100	50-151			
Dichlorprop	1.9		0.50	ug/L	2.00	0.22 U	97	50-174			
Dinoseb	1.7		0.50	ug/L	2.00	0.28 U	86	10-179			
MCPA	180		50	ug/L	200	3.8 U	90	53-141			
MCPP	200		50	ug/L	200	4.9 U	100	35-180			
Pentachlorophenol	1.5		0.50	ug/L	2.00	0.043 U	73	44-144			
Picloram	1.6		0.50	ug/L	2.00	0.031 U	78	23-174			
Surrogate: 2,4-DCAA [2C]	2.6			ug/L	2.00		132	68-139			

Matrix Spike Dup (9G31021-MSD1)

Prepared: 07/31/2009 16:01 Analyzed: 08/04/2009 13:23

Source: A903702-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.7		0.50	ug/L	2.00	0.053 U	84	62-145	10	22	
2,4,5-TP (Silvex)	1.7		0.50	ug/L	2.00	0.056 U	86	38-193	8	20	
2,4-D	1.8		0.50	ug/L	2.00	0.091 U	89	62-144	8	33	
2,4-DB	2.2		0.50	ug/L	2.00	0.30 U	109	46-185	6	36	
3,5-DCBA	2.0		0.50	ug/L	2.00	0.069 U	99	62-140	10	24	
4-Nitrophenol	2.3		0.50	ug/L	2.00	0.016 U	113	10-184	3	47	
Acifluorfen	1.7		0.50	ug/L	2.00	0.19 U	85	10-162	13	50	
Bentazon	1.5		0.50	ug/L	2.00	0.15 U	74	38-142	13	50	
Chloramben	0.95		0.50	ug/L	2.00	0.064 U	48	10-177	9	41	
Dacthal	1.3		0.50	ug/L	2.00	0.036 U	67	47-137	14	32	
Dalapon	1.9		0.50	ug/L	2.00	0.078 U	96	10-165	29	50	
Dicamba	1.8		0.50	ug/L	2.00	0.050 U	90	50-151	10	27	
Dichlorprop	1.8		0.50	ug/L	2.00	0.22 U	89	50-174	8	37	
Dinoseb	1.4		0.50	ug/L	2.00	0.28 U	72	10-179	17	50	
MCPA	160		50	ug/L	200	3.8 U	82	53-141	8	26	
MCPP	180		50	ug/L	200	4.9 U	88	35-180	13	31	
Pentachlorophenol	1.3		0.50	ug/L	2.00	0.043 U	66	44-144	10	23	
Picloram	1.4		0.50	ug/L	2.00	0.031 U	70	23-174	11	27	
Surrogate: 2,4-DCAA [2C]	2.3			ug/L	2.00		115	68-139			

**Organophosphorus Compounds by GC - Quality Control**



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### QUALITY CONTROL

#### Organophosphorus Compounds by GC - Quality Control

Batch 9H04004 - EPA 3510C

Blank (9H04004-BLK1)

Prepared: 08/05/2009 09:09 Analyzed: 08/06/2009 18:56

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Azinphos-methyl	0.15	U	2.0	ug/L							
Bolstar	0.096	U	2.0	ug/L							
Chlorpyrifos	0.078	U	2.0	ug/L							
Coumaphos	0.15	U	2.0	ug/L							
Demeton	0.064	U	2.0	ug/L							
Diazinon	0.065	U	2.0	ug/L							
Dichlorofenthion	0.071	U	2.0	ug/L							
Dichlorvos	0.17	U	2.0	ug/L							
Dimethoate	0.12	U	2.0	ug/L							
Disulfoton	0.054	U	2.0	ug/L							
EPN	0.14	U	2.0	ug/L							
Ethion	0.12	U	2.0	ug/L							
Ethoprop	0.066	U	2.0	ug/L							
Ethyl Parathion	0.11	U	2.0	ug/L							
Fensulfothion	0.11	U	2.0	ug/L							
Fenthion	0.097	U	2.0	ug/L							
Malathion	0.10	U	2.0	ug/L							
Merphos	0.26	U	2.0	ug/L							
Methyl parathion	0.11	U	2.0	ug/L							
Mevinphos	0.19	U	2.0	ug/L							
Monocrotophos	0.060	U	2.0	ug/L							
Naled	0.24	U	2.0	ug/L							
Phorate	0.054	U	2.0	ug/L							
Ronnel	0.087	U	2.0	ug/L							
Stirophos (Tetrachlorvinphos)	0.091	U	2.0	ug/L							
Sulfotep	0.080	U	2.0	ug/L							
TEPP	0.18	U	2.0	ug/L							
Tokuthion (Prothiofos)	0.092	U	2.0	ug/L							
Surrogate: Tributyl Phosphate	1.1			ug/L	1.00		113	17-139			
Surrogate: Triphenyl phosphate	1.2			ug/L	1.00		119	22-165			

LCS (9H04004-BS1)

Prepared: 08/05/2009 09:09 Analyzed: 08/06/2009 19:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethoate	1.6	I	2.0	ug/L	2.00		82	10-171			
EPN	2.9		2.0	ug/L	2.00		147	10-168			
Malathion	2.9		2.0	ug/L	2.00		145	17-167			
TEPP	3.3		2.0	ug/L	2.00		163	50-106			QL-02
Surrogate: Tributyl Phosphate	1.3			ug/L	1.00		132	17-139			
Surrogate: Triphenyl phosphate	1.4			ug/L	1.00		139	22-165			

Matrix Spike (9H04004-MS1)

Prepared: 08/05/2009 09:09 Analyzed: 08/06/2009 21:00

Source: A903805-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethoate	1.0	I	2.0	ug/L	2.00	0.12 U	52	10-171			
EPN	1.9	I	2.0	ug/L	2.00	0.14 U	93	10-168			



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**QUALITY CONTROL**

**Organophosphorus Compounds by GC - Quality Control**

Batch 9H04004 - EPA 3510C

Matrix Spike (9H04004-MS1) Continued

Prepared: 08/05/2009 09:09 Analyzed: 08/06/2009 21:00

Source: A903805-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Malathion	2.1		2.0	ug/L	2.00	0.10 U	104	17-167			
TEPP	2.4		2.0	ug/L	2.00	0.18 U	119	10-106			
TEPP	2.4		2.0	ug/L	2.00	0.18 U	119	10-106			QL-02
Surrogate: Tributyl Phosphate	0.94			ug/L	1.00		94	17-139			
Surrogate: Triphenyl phosphate	1.1			ug/L	1.00		107	22-165			

Matrix Spike Dup (9H04004-MSD1)

Prepared: 08/05/2009 09:09 Analyzed: 08/06/2009 22:02

Source: A903805-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethoate	1.5	I	2.0	ug/L	2.00	0.12 U	75	10-171	37	20	QR-02
EPN	2.8		2.0	ug/L	2.00	0.14 U	140	10-168	41	50	
Malathion	2.8		2.0	ug/L	2.00	0.10 U	139	17-167	29	39	
TEPP	3.2		2.0	ug/L	2.00	0.18 U	162	10-106	30	28	QL-02
Surrogate: Tributyl Phosphate	1.2			ug/L	1.00		124	17-139			
Surrogate: Triphenyl phosphate	1.3			ug/L	1.00		132	22-165			



**FLAGS/NOTES AND DEFINITIONS**

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value. The associated sample note or project narrative indicate the causative reason.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QS-06	Surrogate recovery exceeded acceptance criteria due to the presence of a coeluting compound. This is a confirmed matrix effect.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.



www.encolabs.com

Project Number: 10903707  
Project Manager: Craig Myers

Columbia Analytical Services, Inc. Chain of Custody  
9143 Phillips Highway, Jacksonville, FL 32256 • 904-770-2777 • FAX 904-770-2011

CAS Contact: Craig Myers

Lab Code	Sample ID	Ref Cont.	Matrix	Sample		Lab ID	HERB 8151A	PEST_OP 8141B
				Date	Time			
10903707-001	1CS	3	Water	7/29/09	1200	ENCO	X	X
10903707-002	1DSS	1	Water	7/29/09	1230	ENCO	X	X

Test Comments  
PEST\_OP - 8141B  
HERB - 8151A  
20903707-001,2  
20903707-001,2

Report Appendix II List  
Report Appendix II List

Special Instructions/Comments  PLEASE SEND RESULTS TO MANDY SULLIVAN	Turnaround Requirements RUSH (Surcharge Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date Requested Report Date: 08/12/09	Report Requirements <input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation (Report with Raw Data) QUANTITY: Y EOD	Invoice Information A 903787 PO# 10903707 Bill to
--	--	--	--

Relinquished By:

*Mandy Sullivan*

Received By:

*C. Myers* 7/30/09  
Craig Myers EOD FAX

Alt/Cell Number:

T-570 P 012/213 T-821

Jul-31-2009 08:43am FROM

# **Appendix B**

## **Groundwater Monitoring Reports**

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (5 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20098  
 WACS Testsite Name: LCS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/29/2009 12:00:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.5	0.5	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	1.1	1.1	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.75	0.75	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	1.1	1.1	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	2.8	2.8	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 10:16:00PM	0.8	0.8	UG/L	U
077168	1,1-Dichloropropene	N	E82502	8260B	7/31/2009 10:16:00PM	0.65	0.65	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 10:16:00PM	0.8	0.8	UG/L	U
077734	1,2,4,5-Tetrachlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.57	0.57	UG/L	U
034551	1,2,4-Trichlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.8	0.8	UG/L	U
034551	1,2,4-Trichlorobenzene	N	E82502	8260B	7/31/2009 10:16:00PM	1.5	1.5	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 12:44:00PM	0.0057	0.0057	UG/L	JU
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 10:16:00PM	1.3	1.3	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 12:44:00PM	0.007	0.007	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 10:16:00PM	0.9	0.9	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.76	0.76	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:16:00PM	0.85	0.85	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 10:16:00PM	0.29	0.29	UG/L	U
073653	1,3,5-Trinitrobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
034566	1,3-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.72	0.72	UG/L	U
034566	1,3-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:16:00PM	0.7	0.7	UG/L	U
077173	1,3-Dichloropropane	N	E82502	8260B	7/31/2009 10:16:00PM	0.5	0.5	UG/L	U
045622	1,3-Dinitrobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	1.6	1.6	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:16:00PM	12	0.7	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	4.5	1.3	UG/L	I
078058	1,4-Naphthoquinone	N	E82502	8270C	7/31/2009 11:12:00AM	1.5	1.5	UG/L	U
073628	1,4-Phenylenediamine	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
073600	1-Naphthylamine	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
077170	2,2-Dichloropropane	N	E82502	8260B	7/31/2009 10:16:00PM	1.1	1.1	UG/L	U
077770	2,3,4,6-Tetrachlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	1.3	1.3	UG/L	U
039740	2,4,5-T	N	E83182	8151	8/4/2009 12:11:00PM	0.053	0.053	UG/L	U
039760	2,4,5-TP (Silvex)	N	E83182	8151	8/4/2009 12:11:00PM	0.056	0.056	UG/L	U
077687	2,4,5-Trichlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.67	0.67	UG/L	U
034621	2,4,6-Trichlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.75	0.75	UG/L	U
039730	2,4-D	N	E83182	8151	8/4/2009 12:11:00PM	0.091	0.091	UG/L	U
034601	2,4-Dichlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.52	0.52	UG/L	U
034606	2,4-Dimethylphenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.81	0.81	UG/L	U
034616	2,4-Dinitrophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.56	0.56	UG/L	U
034611	2,4-Dinitrotoluene	N	E82502	8270C	7/31/2009 11:12:00AM	4.2	4.2	UG/L	U
077541	2,6-Dichlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.74	0.74	UG/L	U
034626	2,6-Dinitrotoluene	N	E82502	8270C	7/31/2009 11:12:00AM	18	0.85	UG/L	U
073501	2-Acetylaminofluorene	N	E82502	8270C	7/31/2009 11:12:00AM	0.92	0.92	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 10:16:00PM	1100	2.8	UG/L	U
034581	2-Chloronaphthalene	N	E82502	8270C	7/31/2009 11:12:00AM	0.73	0.73	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

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Form Produced by FDEP Validator software



WACS Facility ID #: 33628  
 WACS Testsite ID #: 20098  
 WACS Testsite Name: LCS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034586	2-Chlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.77	0.77	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/31/2009 10:16:00PM	8.4	1.8	UG/L	I
073622	2-Methyl-5-nitroaniline	N	E82502	8270C	7/31/2009 11:12:00AM	1.1	1.1	UG/L	U
077416	2-Methylnaphthalene	N	E82502	8270C	7/31/2009 11:12:00AM	0.76	0.76	UG/L	U
077152	2-Methylphenol	N	E82502	8270C	7/31/2009 11:12:00AM	11	0.66	UG/L	U
073601	2-Naphthylamine	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
078142	2-Nitroaniline	N	E82502	8270C	7/31/2009 11:12:00AM	0.57	0.57	UG/L	U
034591	2-Nitrophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.62	0.62	UG/L	U
034631	3,3'-Dichlorobenzidine	N	E82502	8270C	7/31/2009 11:12:00AM	1.5	0.91	UG/L	I
082213	3,3'-Dimethylbenzidine	N	E82502	8270C	7/31/2009 11:12:00AM	2.4	2.4	UG/L	JU
078109	3-Chloro-1-propene	N	E82502	8260B	7/31/2009 10:16:00PM	0.65	0.65	UG/L	U
073591	3-Methylcholanthrene	N	E82502	8270C	7/31/2009 11:12:00AM	0.99	0.99	UG/L	U
078300	3-Nitroaniline	N	E82502	8270C	7/31/2009 11:12:00AM	0.77	0.77	UG/L	U
039360	4,4'-DDD	N	E82502	8081A	8/3/2009 3:30:00PM	0.0081	0.0081	UG/L	U
039365	4,4'-DDE	N	E82502	8081A	8/3/2009 3:30:00PM	0.0086	0.0086	UG/L	U
039370	4,4'-DDT	N	E82502	8081A	8/3/2009 3:30:00PM	0.014	0.014	UG/L	U
030204	4,6-Dinitro-2-Methylphenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.66	0.66	UG/L	U
077581	4-Aminobiphenyl	N	E82502	8270C	7/31/2009 11:12:00AM	1.1	1.1	UG/L	U
034636	4-Bromophenyl phenyl ether	N	E82502	8270C	7/31/2009 11:12:00AM	0.69	0.69	UG/L	JU
034452	4-Chloro-3-methylphenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.77	0.77	UG/L	U
073529	4-Chloroaniline	N	E82502	8270C	7/31/2009 11:12:00AM	0.55	0.55	UG/L	U
034641	4-Chlorophenyl phenyl ether	N	E82502	8270C	7/31/2009 11:12:00AM	0.63	0.63	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 10:16:00PM	28	1.9	UG/L	I
077146	4-Methylphenol	N	E82502	8270C	7/31/2009 11:12:00AM	130	0.79	UG/L	U
030342	4-Nitroaniline	N	E82502	8270C	7/31/2009 11:12:00AM	0.94	0.94	UG/L	U
034646	4-Nitrophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.95	0.95	UG/L	U
073559	7,12-Dimethylbenz(a)anthracene	N	E82502	8270C	7/31/2009 11:12:00AM	0.89	0.89	UG/L	U
034205	Acenaphthene	N	E82502	8270C	7/31/2009 11:12:00AM	1.1	1.1	UG/L	U
034200	Acenaphthylene	N	E82502	8270C	7/31/2009 11:12:00AM	0.6	0.6	UG/L	U
081552	Acetone	N	E82502	8260B	7/31/2009 10:16:00PM	1100	12	UG/L	U
076997	Acetonitrile	N	E82502	8260B	7/31/2009 10:16:00PM	17	17	UG/L	U
081553	Acetophenone	N	E82502	8270C	7/31/2009 11:12:00AM	1.4	1.4	UG/L	U
034210	Acrolein	N	E82502	8260B	7/31/2009 10:16:00PM	48	48	UG/L	U
034215	Acrylonitrile	N	E82502	8260B	7/31/2009 10:16:00PM	3	3	UG/L	U
039330	Aldrin	N	E82502	8081A	8/3/2009 3:30:00PM	0.007	0.007	UG/L	U
039337	alpha-BHC	N	E82502	8081A	8/3/2009 3:30:00PM	0.0081	0.0081	UG/L	U
039348	alpha-Chlordane	N	E82502	8081A	8/3/2009 3:30:00PM	0.0068	0.0068	UG/L	U
000610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	900	2.5	MG/L	U
034220	Anthracene	N	E82502	8270C	7/31/2009 11:12:00AM	0.73	0.73	UG/L	U
001097	Antimony, Total	N	E82502	6020	8/9/2009 7:00:00AM	19.7	0.4	UG/L	U
034671	Aroclor 1016	N	E82502	8082	8/3/2009 3:30:00PM	0.14	0.14	UG/L	U
039488	Aroclor 1221	N	E82502	8082	8/3/2009 3:30:00PM	0.23	0.23	UG/L	U
039492	Aroclor 1232	N	E82502	8082	8/3/2009 3:30:00PM	0.24	0.24	UG/L	U
039496	Aroclor 1242	N	E82502	8082	8/3/2009 3:30:00PM	0.13	0.13	UG/L	U
039500	Aroclor 1248	N	E82502	8082	8/3/2009 3:30:00PM	0.27	0.27	UG/L	U
039504	Aroclor 1254	N	E82502	8082	8/3/2009 3:30:00PM	0.38	0.38	UG/L	U
039508	Aroclor 1260	N	E82502	8082	8/3/2009 3:30:00PM	0.18	0.18	UG/L	U
001002	Arsenic, Total	N	E82502	6020	8/9/2009 7:00:00AM	92.4	0.2	UG/L	U
001007	Barium, Total	N	E82502	6020	8/9/2009 7:00:00AM	203	0.5	UG/L	U
034526	BENZ(A)ANTHRACENE	N	E82502	8270C	7/31/2009 11:12:00AM	0.88	0.88	UG/L	U
078124	Benzene	N	E82502	8260B	7/31/2009 10:16:00PM	2.6	2.6	UG/L	U
034247	Benzo(a)pyrene	N	E82502	8270C	7/31/2009 11:12:00AM	0.65	0.65	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
WACS Testsite ID #: 20098  
WACS Testsite Name: LCS  
Water Classification: LC  
(i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00PM  
Sampling Method:  
Permitted Well Type: OT - Other

\* Well Purged prior to  
Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034230	Benzo(b)fluoranthene	N	E82502	8270C	7/31/2009 11:12:00AM	0.89	0.89	UG/L	U
034521	Benzo(g,h,i)perylene	N	E82502	8270C	7/31/2009 11:12:00AM	0.93	0.93	UG/L	U
034242	Benzo(k)fluoranthene	N	E82502	8270C	7/31/2009 11:12:00AM	0.56	0.56	UG/L	U
077147	Benzyl Alcohol	N	E82502	8270C	7/31/2009 11:12:00AM	0.71	0.71	UG/L	U
001012	Beryllium, Total	N	E82502	6020	8/10/2009 9:52:00PM	0.2	0.2	UG/L	U
039338	beta-BHC	N	E82502	8081A	8/3/2009 3:30:00PM	0.0087	0.0087	UG/L	U
000425	Bicarbonate Ion	N	E82502	310.1	8/4/2009 2:30:00PM	6400	32	MG/L	U
034278	bis(2-chloroethoxy)methane	N	E82502	8270C	7/31/2009 11:12:00AM	0.91	0.91	UG/L	U
034273	BIS(2-CHLOROETHYL) ETHER	N	E82502	8270C	7/31/2009 11:12:00AM	0.98	0.98	UG/L	U
034283	Bis(2-chloroisopropyl) Ether	N	E82502	8270C	7/31/2009 11:12:00AM	0.59	0.59	UG/L	U
039100	Bis(2-ethylhexyl) phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	1	1	UG/L	I
073085	Bromochloromethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.7	0.7	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.5	0.5	UG/L	U
032104	Bromoform	N	E82502	8260B	7/31/2009 10:16:00PM	0.6	0.6	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.7	0.7	UG/L	U
034292	Butyl Benzyl Phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
001027	Cadmium, Total	N	E82502	6020	8/9/2009 7:00:00AM	3.04	0.12	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/31/2009 10:16:00PM	4.2	4.2	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 10:16:00PM	0.9	0.9	UG/L	U
034488	CFC-11	N	E82502	8260B	7/31/2009 10:16:00PM	1.3	1.3	UG/L	U
034668	CFC-12	N	E82502	8260B	7/31/2009 10:16:00PM	1.2	1.2	UG/L	U
000940	Chloride	N	E82502	300	8/3/2009 6:01:00PM	2100	0.62	MG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/31/2009 10:16:00PM	0.75	0.75	UG/L	U
039460	Chlorobenzilate	N	E82502	8270C	7/31/2009 11:12:00AM	0.86	0.86	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.95	0.95	UG/L	U
032106	Chloroform	N	E82502	8260B	7/31/2009 10:16:00PM	0.5	0.5	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.85	0.85	UG/L	U
081520	Chloroprene	N	E82502	8260B	7/31/2009 10:16:00PM	1.2	1.2	UG/L	U
001034	Chromium, Total	N	E82502	6020	8/9/2009 7:00:00AM	98.4	0.8	UG/L	U
034320	Chrysene	N	E82502	8270C	7/31/2009 11:12:00AM	0.89	0.89	UG/L	U
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 10:16:00PM	0.6	0.6	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 10:16:00PM	0.6	0.6	UG/L	U
001037	Cobalt, Total	N	E82502	6020	8/9/2009 7:00:00AM	35.7	0.2	UG/L	U
001042	Copper, Total	N	E82502	6020	8/9/2009 7:00:00AM	4.1	0.3	UG/L	U
000720	Cyanide, Total	N	E82502	9012A	8/10/2009 9:53:00AM	0.0094	0.004	MG/L	I
046323	delta-BHC	N	E82502	8081A	8/3/2009 3:30:00PM	0.012	0.012	UG/L	U
073540	Diallate	N	E82502	8270C	7/31/2009 11:12:00AM	1.1	1.1	UG/L	U
034556	Dibenz(a,h)anthracene	N	E82502	8270C	7/31/2009 11:12:00AM	0.64	0.64	UG/L	U
081302	Dibenzofuran	N	E82502	8270C	7/31/2009 11:12:00AM	0.81	0.81	UG/L	U
032105	Dibromochloromethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.55	0.55	UG/L	U
046361	Dibromomethane	N	E82502	8260B	7/31/2009 10:16:00PM	0.6	0.6	UG/L	U
039380	Dieldrin	N	E82502	8081A	8/3/2009 3:30:00PM	0.0075	0.0075	UG/L	U
034336	Diethyl phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	4.2	4.2	UG/L	U
046314	Dimethoate	N	E82502	8270C	7/31/2009 11:12:00AM	0.92	0.92	UG/L	U
046314	Dimethoate	N	E83182	8141	8/6/2009 6:56:00PM	0.12	0.12	UG/L	U
034341	Dimethyl phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	0.78	0.78	UG/L	U
039110	Di-n-butyl phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	0.99	0.99	UG/L	U
034596	Di-n-Octyl Phthalate	N	E82502	8270C	7/31/2009 11:12:00AM	0.97	0.97	UG/L	U
030191	Dinoseb	N	E83182	8151	8/4/2009 12:11:00PM	0.28	0.28	UG/L	U
081287	Dinoseb	N	E82502	8270C	7/31/2009 11:12:00AM	0.63	0.63	UG/L	U
000299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 12:00:00PM	0.1		MG/L	U
081888	Disulfoton	N	E82502	8270C	7/31/2009 11:12:00AM	0.54	0.54	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20098  
 WACS Testsite Name: LCS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
081888	Disulfoton	N	E83182	8141	8/6/2009 6:56:00PM	0.054	0.054	UG/L	U
034361	Endosulfan I	N	E82502	8081A	8/3/2009 3:30:00PM	0.0091	0.0091	UG/L	U
034356	Endosulfan II	N	E82502	8081A	8/3/2009 3:30:00PM	0.0066	0.0066	UG/L	U
034351	Endosulfan Sulfate	N	E82502	8081A	8/3/2009 3:30:00PM	0.0094	0.0094	UG/L	U
039390	Endrin	N	E82502	8081A	8/3/2009 3:30:00PM	0.0092	0.0092	UG/L	U
034366	Endrin Aldehyde	N	E82502	8081A	8/3/2009 3:30:00PM	0.0087	0.0087	UG/L	U
078008	Endrin Ketone	N	E82502	8081A	8/3/2009 3:30:00PM	0.0055	0.0055	UG/L	U
073570	Ethyl Methacrylate	N	E82502	8260B	7/31/2009 10:16:00PM	0.7	0.7	UG/L	U
073571	Ethyl Methanesulfonate	N	E82502	8270C	7/31/2009 11:12:00AM	0.67	0.67	UG/L	U
034371	Ethylbenzene	N	E82502	8260B	7/31/2009 10:16:00PM	16	0.5	UG/L	U
034531	Ethylene dichloride	N	E82502	8260B	7/31/2009 10:16:00PM	0.75	0.75	UG/L	U
038462	Famphur	N	E82502	8270C	7/31/2009 11:12:00AM	0.71	0.71	UG/L	JU
034376	Fluoranthene	N	E82502	8270C	7/31/2009 11:12:00AM	0.68	0.68	UG/L	U
034381	Fluorene	N	E82502	8270C	7/31/2009 11:12:00AM	0.9	0.9	UG/L	U
039782	gamma-BHC (Lindane)	N	E82502	8081A	8/3/2009 3:30:00PM	0.0084	0.0084	UG/L	U
039810	gamma-Chlordane	N	E82502	8081A	8/3/2009 3:30:00PM	0.0077	0.0077	UG/L	U
039410	Heptachlor	N	E82502	8081A	8/3/2009 3:30:00PM	0.0098	0.0098	UG/L	U
039420	Heptachlor epoxide	N	E82502	8081A	8/3/2009 3:30:00PM	0.0081	0.0081	UG/L	U
039700	Hexachlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.65	0.65	UG/L	U
034391	Hexachlorobutadiene	N	E82502	8260B	7/31/2009 10:16:00PM	3.1	3.1	UG/L	U
034391	Hexachlorobutadiene	N	E82502	8270C	7/31/2009 11:12:00AM	0.63	0.63	UG/L	U
034386	Hexachlorocyclopentadiene	N	E82502	8270C	7/31/2009 11:12:00AM	0.42	0.42	UG/L	U
034396	Hexachloroethane	N	E82502	8270C	7/31/2009 11:12:00AM	0.94	0.94	UG/L	U
073576	Hexachloropropene	N	E82502	8270C	7/31/2009 11:12:00AM	2	2	UG/L	U
034403	Indeno(1,2,3-cd)pyrene	N	E82502	8270C	7/31/2009 11:12:00AM	0.57	0.57	UG/L	U
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 10:16:00PM	13	13	UG/L	U
001045	Iron, Total	N	E82502	6010B	8/4/2009 6:27:00PM	4800	4	UG/L	U
077033	Isobutyl alcohol	N	E82502	8260B	7/31/2009 10:16:00PM	23	23	UG/L	U
039430	Isodrin	N	E82502	8270C	7/31/2009 11:12:00AM	0.73	0.73	UG/L	U
034408	Isophorone	N	E82502	8270C	7/31/2009 11:12:00AM	0.82	0.82	UG/L	U
073582	Isosafrole	N	E82502	8270C	7/31/2009 11:12:00AM	0.77	0.77	UG/L	U
081281	Kepone	N	E82502	8270C	7/31/2009 11:12:00AM	4.3	4.3	UG/L	U
001051	Lead, Total	N	E82502	6020	8/9/2009 7:00:00AM	1.3	0.2	UG/L	U
085795	m&p-Xylenes	N	E82502	8260B	7/31/2009 10:16:00PM	24	1.1	UG/L	U
071900	Mercury, Total	N	E82502	7470A	8/6/2009 3:32:00PM	0.08	0.08	UG/L	U
081593	Methacrylonitrile	N	E82502	8260B	7/31/2009 10:16:00PM	1	1	UG/L	U
073589	Methapyrilene	N	E82502	8270C	7/31/2009 11:12:00AM	1.6	1.6	UG/L	U
039480	Methoxychlor	N	E82502	8081A	8/3/2009 3:30:00PM	0.012	0.012	UG/L	U
081597	Methyl methacrylate	N	E82502	8260B	7/31/2009 10:16:00PM	1.1	1.1	UG/L	U
073595	Methyl Methanesulfonate	N	E82502	8270C	7/31/2009 11:12:00AM	0.58	0.58	UG/L	U
039600	Methyl Parathion	N	E83182	8141	8/6/2009 6:56:00PM	0.11	0.11	UG/L	U
039600	Methyl Parathion	N	E82502	8270C	7/31/2009 11:12:00AM	1.2	1.2	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/31/2009 10:16:00PM	3.6	3.6	UG/L	U
034696	Naphthalene	N	E82502	8260B	7/31/2009 10:16:00PM	1.3	1.3	UG/L	U
034696	Naphthalene	N	E82502	8270C	7/31/2009 11:12:00AM	0.81	0.81	UG/L	U
001067	Nickel, Total	N	E82502	6020	8/9/2009 7:00:00AM	164	0.3	UG/L	U
000620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 4:43:00AM	0.38	0.38	MG/L	U
034447	Nitrobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.75	0.75	UG/L	U
073611	N-Nitrosodiethylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.65	0.65	UG/L	U
034438	N-Nitrosodimethylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.75	0.75	UG/L	U
073609	N-Nitrosodi-N-Butylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.69	0.69	UG/L	U
034428	N-Nitrosodi-N-Propylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.7	0.7	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 20098  
 WACS Testsite Name: LCS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-III(F))

Sample Date/Time: 7/29/2009 12:00:00PM  
 Sampling Method:  
 Permitted Well Type: OT - Other

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034433	N-Nitrosodiphenylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.98	0.98	UG/L	U
073613	N-Nitrosomethylethylamine	N	E82502	8270C	7/31/2009 11:12:00AM	0.84	0.84	UG/L	U
073619	N-Nitrosopiperidine	N	E82502	8270C	7/31/2009 11:12:00AM	1.7	1.7	UG/L	U
078206	N-Nitrosopyrrolidine	N	E82502	8270C	7/31/2009 11:12:00AM	0.72	0.72	UG/L	U
073652	O,O,O-Triethyl Phosphorothioate	N	E82502	8270C	7/31/2009 11:12:00AM	0.54	0.54	UG/L	U
077142	o-Toluidine	N	E82502	8270C	7/31/2009 11:12:00AM	0.91	0.91	UG/L	U
077135	o-Xylene	N	E82502	8260B	7/31/2009 10:16:00PM	15	0.5	UG/L	U
039540	Parathion	N	E83182	8141	8/6/2009 6:56:00PM	0.11	0.11	UG/L	U
046315	Parathion	N	E82502	8270C	7/31/2009 11:12:00AM	0.95	0.95	UG/L	U
073558	p-Dimethylaminoazobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	0.91	0.91	UG/L	U
077793	Pentachlorobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	2.5	2.5	UG/L	U
081316	Pentachloronitrobenzene	N	E82502	8270C	7/31/2009 11:12:00AM	1.6	1.6	UG/L	U
039032	Pentachlorophenol	N	E82502	8270C	7/31/2009 11:12:00AM	0.69	0.69	UG/L	U
039032	Pentachlorophenol	N	E83182	8151	8/4/2009 12:11:00PM	0.043	0.043	UG/L	U
000406	pH	N	E82502	FIELD	7/29/2009 12:00:00PM	7.75		pH Units	
073626	Phenacetin	N	E82502	8270C	7/31/2009 11:12:00AM	0.91	0.91	UG/L	U
034461	Phenanthrene	N	E82502	8270C	7/31/2009 11:12:00AM	0.72	0.72	UG/L	U
034694	Phenol	N	E82502	8270C	7/31/2009 11:12:00AM	46	0.43	UG/L	
046313	Phorate	N	E82502	8270C	7/31/2009 11:12:00AM	0.9	0.9	UG/L	U
046313	Phorate	N	E83182	8141	8/6/2009 6:56:00PM	0.054	0.054	UG/L	U
039080	Pronamide	N	E82502	8270C	7/31/2009 11:12:00AM	0.87	0.87	UG/L	U
077007	Propionitrile	N	E82502	8260B	7/31/2009 10:16:00PM	4.4	4.4	UG/L	U
034469	Pyrene	N	E82502	8270C	7/31/2009 11:12:00AM	0.86	0.86	UG/L	U
077545	Safrole	N	E82502	8270C	7/31/2009 11:12:00AM	0.73	0.73	UG/L	U
001147	Selenium, Total	N	E82502	6020	8/9/2009 7:00:00AM	3.7	0.8	UG/L	
001077	Silver, Total	N	E82502	6020	8/9/2009 7:00:00AM	0.08	0.08	UG/L	U
000929	Sodium, Total	N	E82502	6010B	8/5/2009 9:46:00PM	1580	0.2	MG/L	
000094	Specific Conductance	N	E82502	FIELD	7/29/2009 12:00:00PM	17740		UMHOS/CM	
077128	Styrene	N	E82502	8260B	7/31/2009 10:16:00PM	1.8	0.26	UG/L	I
000745	Sulfide	N	E82502	376.1	8/5/2009 6:00:00PM	9.2	1.52	MG/L	
000010	Temperature, Water	N	E82502	FIELD	7/29/2009 12:00:00PM	35.2		Deg C	
034475	Tetrachloroethene	N	E82502	8260B	7/31/2009 10:16:00PM	1.1	1.1	UG/L	U
001059	Thallium, Total	N	E82502	6020	8/9/2009 7:00:00AM	0.2	0.2	UG/L	U
073553	Thionazin	N	E82502	8270C	7/31/2009 11:12:00AM	0.83	0.83	UG/L	U
001102	Tin, Total	N	E82502	6010B	8/4/2009 6:27:00PM	0.026	0.003	UG/L	I
034010	Toluene	N	E82502	8260B	7/31/2009 10:16:00PM	19	2.6	UG/L	
000515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	7200	48	MG/L	
039400	Toxaphene	N	E82502	8081A	8/3/2009 3:30:00PM	0.52	0.52	UG/L	U
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 10:16:00PM	0.65	0.65	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 10:16:00PM	0.6	0.6	UG/L	U
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 10:16:00PM	5.5	5.5	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/31/2009 10:16:00PM	0.75	0.75	UG/L	U
082078	Turbidity	N	E82502	FIELD	7/29/2009 12:00:00PM	2.7		NTU	
001087	Vanadium, Total	N	E82502	6020	8/9/2009 7:00:00AM	58.4	1.2	UG/L	
077057	Vinyl acetate	N	E82502	8260B	7/31/2009 10:16:00PM	3	3	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/31/2009 10:16:00PM	1.3	1.3	UG/L	U
001092	Zinc, Total	N	E82502	6020	8/9/2009 7:00:00AM	24	4	UG/L	

Total Parameters Monitored: 247

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (5 Pages)

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17333  
 WACS Testsite Name: LDSS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:30:00PM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: SO - Source

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.5	0.5	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	1.1	1.1	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.75	0.75	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	1.1	1.1	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	2.8	2.8	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 10:44:00PM	0.8	0.8	UG/L	U
077168	1,1-Dichloropropene	N	E82502	8260B	7/31/2009 10:44:00PM	0.65	0.65	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 10:44:00PM	0.8	0.8	UG/L	U
077734	1,2,4,5-Tetrachlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.61	0.61	UG/L	U
034551	1,2,4-Trichlorobenzene	N	E82502	8260B	7/31/2009 10:44:00PM	1.5	1.5	UG/L	U
034551	1,2,4-Trichlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.86	0.86	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 10:44:00PM	1.3	1.3	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8011	8/5/2009 1:06:00PM	0.0057	0.0057	UG/L	JU
077651	1,2-Dibromoethane (EDB)	N	E82502	8011	8/5/2009 1:06:00PM	0.007	0.007	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 10:44:00PM	0.9	0.9	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.82	0.82	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:44:00PM	0.85	0.85	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 10:44:00PM	0.29	0.29	UG/L	U
073653	1,3,5-Trinitrobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
034566	1,3-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:44:00PM	0.7	0.7	UG/L	U
034566	1,3-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.77	0.77	UG/L	U
077173	1,3-Dichloropropane	N	E82502	8260B	7/31/2009 10:44:00PM	0.5	0.5	UG/L	U
045622	1,3-Dinitrobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	1.7	1.7	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	5.7	1.4	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 10:44:00PM	11	0.7	UG/L	U
078058	1,4-Naphthoquinone	N	E82502	8270C	7/31/2009 11:39:00AM	1.6	1.6	UG/L	U
073628	1,4-Phenylenediamine	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
073600	1-Naphthylamine	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
077170	2,2-Dichloropropane	N	E82502	8260B	7/31/2009 10:44:00PM	1.1	1.1	UG/L	U
077770	2,3,4,6-Tetrachlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	1.4	1.4	UG/L	U
039740	2,4,5-T	N	E83182	8151	8/4/2009 12:11:00PM	0.053	0.053	UG/L	U
039760	2,4,5-TP	N	E83182	8151	8/4/2009 12:11:00PM	0.056	0.056	UG/L	U
077687	2,4,5-Trichlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.72	0.72	UG/L	U
034621	2,4,6-Trichlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.81	0.81	UG/L	U
039730	2,4-D	N	E83182	8151	8/4/2009 12:11:00PM	0.091	0.091	UG/L	U
034601	2,4-Dichlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.55	0.55	UG/L	U
034606	2,4-Dimethylphenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.87	0.87	UG/L	U
034616	2,4-Dinitrophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.6	0.6	UG/L	U
034611	2,4-Dinitrotoluene	N	E82502	8270C	7/31/2009 11:39:00AM	4.6	4.6	UG/L	U
077541	2,6-Dichlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.8	0.8	UG/L	U
034626	2,6-Dinitrotoluene	N	E82502	8270C	7/31/2009 11:39:00AM	14	0.92	UG/L	U
073501	2-Acetylaminofluorene	N	E82502	8270C	7/31/2009 11:39:00AM	0.99	0.99	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 10:44:00PM	47	2.8	UG/L	I
034581	2-Chloronaphthalene	N	E82502	8270C	7/31/2009 11:39:00AM	0.79	0.79	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17333  
 WACS Testsite Name: LDSS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-III-F)

Sample Date/Time: 7/29/2009 12:30:00PM  
 Sampling Method:  
 Permitted Well Type: SO - Source

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034586	2-Chlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.83	0.83	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/31/2009 10:44:00PM	1.8	1.8	UG/L	U
073622	2-Methyl-5-nitroaniline	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
077416	2-Methylnaphthalene	N	E82502	8270C	7/31/2009 11:39:00AM	0.82	0.82	UG/L	U
077152	2-Methylphenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.71	0.71	UG/L	U
073601	2-Naphthylamine	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
078142	2-Nitroaniline	N	E82502	8270C	7/31/2009 11:39:00AM	0.61	0.61	UG/L	U
034591	2-Nitrophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.66	0.66	UG/L	U
034631	3,3'-Dichlorobenzidine	N	E82502	8270C	7/31/2009 11:39:00AM	1.9	0.98	UG/L	I
082213	3,3'-Dimethylbenzidine	N	E82502	8270C	7/31/2009 11:39:00AM	2.6	2.6	UG/L	JU
078109	3-Chloro-1-propene	N	E82502	8260B	7/31/2009 10:44:00PM	0.65	0.65	UG/L	U
073591	3-Methylcholanthrene	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
078300	3-Nitroaniline	N	E82502	8270C	7/31/2009 11:39:00AM	0.83	0.83	UG/L	U
039360	4,4'-DDD	N	E82502	8081A	8/3/2009 3:51:00PM	0.0084	0.0084	UG/L	U
039365	4,4'-DDE	N	E82502	8081A	8/3/2009 3:51:00PM	0.0089	0.0089	UG/L	U
039370	4,4'-DDT	N	E82502	8081A	8/3/2009 3:51:00PM	0.014	0.014	UG/L	U
030204	4,6-Dinitro-2-Methylphenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.71	0.71	UG/L	U
077581	4-Aminobiphenyl	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034636	4-Bromophenyl phenyl ether	N	E82502	8270C	7/31/2009 11:39:00AM	0.74	0.74	UG/L	JU
034452	4-Chloro-3-methylphenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.83	0.83	UG/L	U
073529	4-Chloroaniline	N	E82502	8270C	7/31/2009 11:39:00AM	0.59	0.59	UG/L	U
034641	4-Chlorophenyl phenyl ether	N	E82502	8270C	7/31/2009 11:39:00AM	0.68	0.68	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 10:44:00PM	20	1.9	UG/L	I
077146	4-Methylphenol	N	E82502	8270C	7/31/2009 11:39:00AM	110	0.85	UG/L	
030342	4-Nitroaniline	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034646	4-Nitrophenol	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
073559	7,12-Dimethylbenz(a)anthracene	N	E82502	8270C	7/31/2009 11:39:00AM	0.96	0.96	UG/L	U
034205	Acenaphthene	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034200	Acenaphthylene	N	E82502	8270C	7/31/2009 11:39:00AM	0.64	0.64	UG/L	U
081552	Acetone	N	E82502	8260B	7/31/2009 10:44:00PM	59	12	UG/L	I
076997	Acetonitrile	N	E82502	8260B	7/31/2009 10:44:00PM	17	17	UG/L	U
081553	Acetophenone	N	E82502	8270C	7/31/2009 11:39:00AM	1.5	1.5	UG/L	U
034210	Acrolein	N	E82502	8260B	7/31/2009 10:44:00PM	48	48	UG/L	U
034215	Acrylonitrile	N	E82502	8260B	7/31/2009 10:44:00PM	3	3	UG/L	U
039330	Aldrin	N	E82502	8081A	8/3/2009 3:51:00PM	0.0072	0.0072	UG/L	U
039337	alpha-BHC	N	E82502	8081A	8/3/2009 3:51:00PM	0.0084	0.0084	UG/L	U
039348	alpha-Chlordane	N	E82502	8081A	8/3/2009 3:51:00PM	0.007	0.007	UG/L	U
000610	AMMONIA-N	N	E82502	350.1	8/9/2009 4:17:00PM	590	2.5	MG/L	
034220	Anthracene	N	E82502	8270C	7/31/2009 11:39:00AM	0.79	0.79	UG/L	U
001097	Antimony, Total	N	E82502	6020	8/9/2009 7:05:00AM	16.3	0.4	UG/L	
034671	Aroclor 1016	N	E82502	8082	8/3/2009 3:51:00PM	0.14	0.14	UG/L	U
039488	Aroclor 1221	N	E82502	8082	8/3/2009 3:51:00PM	0.24	0.24	UG/L	U
039492	Aroclor 1232	N	E82502	8082	8/3/2009 3:51:00PM	0.25	0.25	UG/L	U
039496	Aroclor 1242	N	E82502	8082	8/3/2009 3:51:00PM	0.13	0.13	UG/L	U
039500	Aroclor 1248	N	E82502	8082	8/3/2009 3:51:00PM	0.28	0.28	UG/L	U
039504	Aroclor 1254	N	E82502	8082	8/3/2009 3:51:00PM	0.39	0.39	UG/L	U
039508	Aroclor 1260	N	E82502	8082	8/3/2009 3:51:00PM	0.18	0.18	UG/L	U
001002	Arsenic, Total	N	E82502	6020	8/9/2009 7:05:00AM	79.3	0.2	UG/L	
001007	Barium, Total	N	E82502	6020	8/9/2009 7:05:00AM	268	0.5	UG/L	
034526	BENZ(A)ANTHRACENE	N	E82502	8270C	7/31/2009 11:39:00AM	0.95	0.95	UG/L	U
078124	Benzene	N	E82502	8260B	7/31/2009 10:44:00PM	2.6	2.6	UG/L	U
034247	Benzo(a)pyrene	N	E82502	8270C	7/31/2009 11:39:00AM	0.7	0.7	UG/L	U

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17333  
 WACS Testsite Name: LDSS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-III/F)

Sample Date/Time: 7/29/2009 12:30:00PM  
 Sampling Method:  
 Permitted Well Type: SO - Source

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034230	Benzo(b)fluoranthene	N	E82502	8270C	7/31/2009 11:39:00AM	0.96	0.96	UG/L	U
034521	Benzo(g,h,i)perylene	N	E82502	8270C	7/31/2009 11:39:00AM	1	1	UG/L	U
034242	Benzo(k)fluoranthene	N	E82502	8270C	7/31/2009 11:39:00AM	0.6	0.6	UG/L	U
077147	Benzyl Alcohol	N	E82502	8270C	7/31/2009 11:39:00AM	0.76	0.76	UG/L	U
001012	Beryllium, Total	N	E82502	6020	8/10/2009 9:57:00PM	0.2	0.2	UG/L	U
039338	beta-BHC	N	E82502	8081A	8/3/2009 3:51:00PM	0.009	0.009	UG/L	U
000425	Bicarbonate Ion	N	E82502	310.1	8/4/2009 2:30:00PM	4100	16	MG/L	U
034278	bis(2-chloroethoxy)methane	N	E82502	8270C	7/31/2009 11:39:00AM	0.98	0.98	UG/L	U
034273	BIS(2-CHLOROETHYL) ETHER	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034283	Bis(2-chloroisopropyl) Ether	N	E82502	8270C	7/31/2009 11:39:00AM	0.63	0.63	UG/L	U
039100	Bis(2-ethylhexyl) phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
073085	Bromochloromethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.7	0.7	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.5	0.5	UG/L	U
032104	Bromoform	N	E82502	8260B	7/31/2009 10:44:00PM	0.6	0.6	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.7	0.7	UG/L	U
034292	Butyl Benzyl Phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
001027	Cadmium, Total	N	E82502	6020	8/9/2009 7:05:00AM	1.62	0.12	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/31/2009 10:44:00PM	4.2	4.2	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 10:44:00PM	0.9	0.9	UG/L	U
034488	CFC-11	N	E82502	8260B	7/31/2009 10:44:00PM	1.3	1.3	UG/L	U
034668	CFC-12	N	E82502	8260B	7/31/2009 10:44:00PM	1.2	1.2	UG/L	U
000940	Chloride	N	E82502	300	7/30/2009 12:29:00AM	1400	0.31	MG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/31/2009 10:44:00PM	0.75	0.75	UG/L	U
039460	Chlorobenzilate	N	E82502	8270C	7/31/2009 11:39:00AM	0.93	0.93	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.95	0.95	UG/L	U
032106	Chloroform	N	E82502	8260B	7/31/2009 10:44:00PM	0.5	0.5	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.85	0.85	UG/L	U
081520	Chloroprene	N	E82502	8260B	7/31/2009 10:44:00PM	1.2	1.2	UG/L	U
001034	Chromium, Total	N	E82502	6020	8/9/2009 7:05:00AM	72.7	0.8	UG/L	U
034320	Chrysene	N	E82502	8270C	7/31/2009 11:39:00AM	0.96	0.96	UG/L	U
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 10:44:00PM	0.6	0.6	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 10:44:00PM	0.6	0.6	UG/L	U
001037	Cobalt, Total	N	E82502	6020	8/9/2009 7:05:00AM	26.4	0.2	UG/L	U
001042	Copper, Total	N	E82502	6020	8/9/2009 7:05:00AM	8.4	0.3	UG/L	U
000720	Cyanide, Total	N	E82502	9012A	8/10/2009 9:53:00AM	0.004	0.004	MG/L	U
046323	delta-BHC	N	E82502	8081A	8/3/2009 3:51:00PM	0.012	0.012	UG/L	U
073540	Diallate	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034556	Dibenz(a,h)anthracene	N	E82502	8270C	7/31/2009 11:39:00AM	0.69	0.69	UG/L	U
081302	Dibenzofuran	N	E82502	8270C	7/31/2009 11:39:00AM	0.87	0.87	UG/L	U
032105	Dibromochloromethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.55	0.55	UG/L	U
046361	Dibromomethane	N	E82502	8260B	7/31/2009 10:44:00PM	0.6	0.6	UG/L	U
039380	Dieldrin	N	E82502	8081A	8/3/2009 3:51:00PM	0.0077	0.0077	UG/L	U
034336	Diethyl phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	4.6	4.6	UG/L	U
046314	Dimethoate	N	E83182	8141	8/6/2009 6:56:00PM	0.13	0.13	UG/L	U
046314	Dimethoate	N	E82502	8270C	7/31/2009 11:39:00AM	0.99	0.99	UG/L	U
034341	Dimethyl phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	0.84	0.84	UG/L	U
039110	Di-n-butyl phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
034596	Di-n-Octyl Phthalate	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
030191	Dinoseb	N	E83182	8151	8/4/2009 12:11:00PM	0.28	0.28	UG/L	U
081287	Dinoseb	N	E82502	8270C	7/31/2009 11:39:00AM	0.68	0.68	UG/L	U
000299	Dissolved Oxygen	N	E82502	FIELD	7/29/2009 12:30:00PM	0.2		MG/L	U
081888	Disulfoton	N	E83182	8141	8/6/2009 6:56:00PM	0.06	0.06	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

WACS Facility ID #: 33628  
 WACS Testsite ID #: 17333  
 WACS Testsite Name: LDSS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:30:00PM  
 Sampling Method:  
 Permitted Well Type: SO - Source

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
081888	Disulfoton	N	E82502	8270C	7/31/2009 11:39:00AM	0.58	0.58	UG/L	U
034361	Endosulfan I	N	E82502	8081A	8/3/2009 3:51:00PM	0.0094	0.0094	UG/L	U
034356	Endosulfan II	N	E82502	8081A	8/3/2009 3:51:00PM	0.0068	0.0068	UG/L	U
034351	Endosulfan Sulfate	N	E82502	8081A	8/3/2009 3:51:00PM	0.0097	0.0097	UG/L	U
039390	Endrin	N	E82502	8081A	8/3/2009 3:51:00PM	0.0095	0.0095	UG/L	U
034366	Endrin Aldehyde	N	E82502	8081A	8/3/2009 3:51:00PM	0.009	0.009	UG/L	U
078008	Endrin Ketone	N	E82502	8081A	8/3/2009 3:51:00PM	0.0056	0.0056	UG/L	U
073570	Ethyl Methacrylate	N	E82502	8260B	7/31/2009 10:44:00PM	0.7	0.7	UG/L	U
073571	Ethyl Methanesulfonate	N	E82502	8270C	7/31/2009 11:39:00AM	0.72	0.72	UG/L	U
034371	Ethylbenzene	N	E82502	8260B	7/31/2009 10:44:00PM	8.1	0.5	UG/L	
034531	Ethylene dichloride	N	E82502	8260B	7/31/2009 10:44:00PM	0.75	0.75	UG/L	U
038462	Famphur	N	E82502	8270C	7/31/2009 11:39:00AM	0.76	0.76	UG/L	JU
034376	Fluoranthene	N	E82502	8270C	7/31/2009 11:39:00AM	0.73	0.73	UG/L	U
034381	Fluorene	N	E82502	8270C	7/31/2009 11:39:00AM	0.97	0.97	UG/L	U
039782	gamma-BHC (Lindane)	N	E82502	8081A	8/3/2009 3:51:00PM	0.0087	0.0087	UG/L	U
039810	gamma-Chlordane	N	E82502	8081A	8/3/2009 3:51:00PM	0.0079	0.0079	UG/L	U
039410	Heptachlor	N	E82502	8081A	8/3/2009 3:51:00PM	0.011	0.011	UG/L	U
039420	Heptachlor epoxide	N	E82502	8081A	8/3/2009 3:51:00PM	0.0084	0.0084	UG/L	U
039700	Hexachlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.7	0.7	UG/L	U
034391	Hexachlorobutadiene	N	E82502	8260B	7/31/2009 10:44:00PM	3.1	3.1	UG/L	U
034391	Hexachlorobutadiene	N	E82502	8270C	7/31/2009 11:39:00AM	0.68	0.68	UG/L	U
034386	Hexachlorocyclopentadiene	N	E82502	8270C	7/31/2009 11:39:00AM	0.46	0.46	UG/L	U
034396	Hexachloroethane	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
073576	Hexachloropropene	N	E82502	8270C	7/31/2009 11:39:00AM	2.1	2.1	UG/L	U
034403	Indeno(1,2,3-cd)pyrene	N	E82502	8270C	7/31/2009 11:39:00AM	0.61	0.61	UG/L	U
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 10:44:00PM	13	13	UG/L	U
001045	Iron, Total	N	E82502	6010B	8/4/2009 6:34:00PM	5990	4	UG/L	
077033	Isobutyl alcohol	N	E82502	8260B	7/31/2009 10:44:00PM	23	23	UG/L	U
039430	Isodrin	N	E82502	8270C	7/31/2009 11:39:00AM	0.79	0.79	UG/L	U
034408	Isophorone	N	E82502	8270C	7/31/2009 11:39:00AM	0.88	0.88	UG/L	U
073582	Isosafrole	N	E82502	8270C	7/31/2009 11:39:00AM	0.83	0.83	UG/L	U
081281	Kepone	N	E82502	8270C	7/31/2009 11:39:00AM	4.7	4.7	UG/L	U
001051	Lead, Total	N	E82502	6020	8/9/2009 7:05:00AM	2.6	0.2	UG/L	
085795	m&p-Xylenes	N	E82502	8260B	7/31/2009 10:44:00PM	7.2	1.1	UG/L	I
071900	Mercury, Total	N	E82502	7470A	8/6/2009 3:33:00PM	0.08	0.08	UG/L	U
081593	Methacrylonitrile	N	E82502	8260B	7/31/2009 10:44:00PM	1	1	UG/L	U
073589	Methapyrilene	N	E82502	8270C	7/31/2009 11:39:00AM	1.7	1.7	UG/L	U
039480	Methoxychlor	N	E82502	8081A	8/3/2009 3:51:00PM	0.012	0.012	UG/L	U
081597	Methyl methacrylate	N	E82502	8260B	7/31/2009 10:44:00PM	1.1	1.1	UG/L	U
073595	Methyl Methanesulfonate	N	E82502	8270C	7/31/2009 11:39:00AM	0.62	0.62	UG/L	U
039600	Methyl Parathion	N	E83182	8141	8/6/2009 6:56:00PM	0.12	0.12	UG/L	U
039600	Methyl Parathion	N	E82502	8270C	7/31/2009 11:39:00AM	1.3	1.3	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/31/2009 10:44:00PM	3.6	3.6	UG/L	U
034696	Naphthalene	N	E82502	8270C	7/31/2009 11:39:00AM	0.87	0.87	UG/L	U
034696	Naphthalene	N	E82502	8260B	7/31/2009 10:44:00PM	10	1.3	UG/L	I
001067	Nickel, Total	N	E82502	6020	8/9/2009 7:05:00AM	142	0.3	UG/L	
000620	NITRATE NITROGEN (as N)	N	E82502	300	7/30/2009 4:58:00AM	0.38	0.38	MG/L	U
034447	Nitrobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.81	0.81	UG/L	U
073611	N-Nitrosodiethylamine	N	E82502	8270C	7/31/2009 11:39:00AM	0.7	0.7	UG/L	U
034438	N-Nitrosodimethylamine	N	E82502	8270C	7/31/2009 11:39:00AM	0.81	0.81	UG/L	U
073609	N-Nitrosodi-N-Butylamine	N	E82502	8270C	7/31/2009 11:39:00AM	0.74	0.74	UG/L	U
034428	N-Nitrosodi-N-Propylamine	N	E82502	8270C	7/31/2009 11:39:00AM	0.75	0.75	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



WACS Facility ID #: 33628  
 WACS Testsite ID #: 17333  
 WACS Testsite Name: LDSS  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:30:00PM  
 Sampling Method:  
 Permitted Well Type: SO - Source

\* Well Purged prior to Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034433	N-Nitrosodiphenylamine	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
073613	N-Nitrosomethylethylamine	N	E82502	8270C	7/31/2009 11:39:00AM	0.91	0.91	UG/L	U
073619	N-Nitrosopiperidine	N	E82502	8270C	7/31/2009 11:39:00AM	1.8	1.8	UG/L	U
078206	N-Nitrosopyrrolidine	N	E82502	8270C	7/31/2009 11:39:00AM	0.77	0.77	UG/L	U
073652	O,O,O-Triethyl Phosphorothioate	N	E82502	8270C	7/31/2009 11:39:00AM	0.58	0.58	UG/L	U
077142	o-Toluidine	N	E82502	8270C	7/31/2009 11:39:00AM	0.98	0.98	UG/L	U
077135	o-Xylene	N	E82502	8260B	7/31/2009 10:44:00PM	6.5	0.5	UG/L	U
039540	Parathion	N	E83182	8141	8/6/2009 6:56:00PM	0.12	0.12	UG/L	U
046315	Parathion	N	E82502	8270C	7/31/2009 11:39:00AM	1.1	1.1	UG/L	U
073558	p-Dimethylaminoazobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	0.98	0.98	UG/L	U
077793	Pentachlorobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	2.7	2.7	UG/L	U
081316	Pentachloronitrobenzene	N	E82502	8270C	7/31/2009 11:39:00AM	1.7	1.7	UG/L	U
039032	Pentachlorophenol	N	E82502	8270C	7/31/2009 11:39:00AM	0.74	0.74	UG/L	U
039032	Pentachlorophenol	N	E83182	8151	8/4/2009 12:11:00PM	0.043	0.043	UG/L	U
000406	pH	N	E82502	FIELD	7/29/2009 12:30:00PM	7.72		pH Units	
073626	Phenacetin	N	E82502	8270C	7/31/2009 11:39:00AM	0.98	0.98	UG/L	U
034461	Phenanthrene	N	E82502	8270C	7/31/2009 11:39:00AM	0.77	0.77	UG/L	U
034694	Phenol	N	E82502	8270C	7/31/2009 11:39:00AM	25	0.47	UG/L	U
046313	Phorate	N	E83182	8141	8/6/2009 6:56:00PM	0.06	0.06	UG/L	U
046313	Phorate	N	E82502	8270C	7/31/2009 11:39:00AM	0.97	0.97	UG/L	U
039080	Pronamide	N	E82502	8270C	7/31/2009 11:39:00AM	0.94	0.94	UG/L	U
077007	Propionitrile	N	E82502	8260B	7/31/2009 10:44:00PM	4.4	4.4	UG/L	U
034469	Pyrene	N	E82502	8270C	7/31/2009 11:39:00AM	0.93	0.93	UG/L	U
077545	Safrole	N	E82502	8270C	7/31/2009 11:39:00AM	0.79	0.79	UG/L	U
001147	Selenium, Total	N	E82502	6020	8/9/2009 7:05:00AM	5	0.8	UG/L	
001077	Silver, Total	N	E82502	6020	8/9/2009 7:05:00AM	0.08	0.08	UG/L	U
000929	Sodium, Total	N	E82502	6010B	8/5/2009 9:51:00PM	1420	0.2	MG/L	
000094	Specific Conductance	N	E82502	FIELD	7/29/2009 12:30:00PM	9803		UMHOS/CM	
077128	Styrene	N	E82502	8260B	7/31/2009 10:44:00PM	0.49	0.26	UG/L	I
000745	Sulfide	N	E82502	376.1	8/5/2009 6:00:00PM	12	1.52	MG/L	
000010	Temperature, Water	N	E82502	FIELD	7/29/2009 12:30:00PM	31.7		Deg C	
034475	Tetrachloroethene	N	E82502	8260B	7/31/2009 10:44:00PM	1.1	1.1	UG/L	U
001059	Thallium, Total	N	E82502	6020	8/9/2009 7:05:00AM	0.2	0.2	UG/L	U
073553	Thionazin	N	E82502	8270C	7/31/2009 11:39:00AM	0.9	0.9	UG/L	U
001102	Tin, Total	N	E82502	6010B	8/4/2009 6:34:00PM	0.008	0.003	UG/L	I
034010	Toluene	N	E82502	8260B	7/31/2009 10:44:00PM	4.1	2.6	UG/L	I
000515	Total Dissolved Solids	N	E82502	160.1	8/4/2009 5:40:00PM	5500	48	MG/L	
039400	Toxaphene	N	E82502	8081A	8/3/2009 3:51:00PM	0.53	0.53	UG/L	U
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 10:44:00PM	0.65	0.65	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 10:44:00PM	0.6	0.6	UG/L	U
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 10:44:00PM	5.5	5.5	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/31/2009 10:44:00PM	0.75	0.75	UG/L	U
082078	Turbidity	N	E82502	FIELD	7/29/2009 12:30:00PM	1.3		NTU	
001087	Vanadium, Total	N	E82502	6020	8/9/2009 7:05:00AM	40	1.2	UG/L	
077057	Vinyl acetate	N	E82502	8260B	7/31/2009 10:44:00PM	3	3	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/31/2009 10:44:00PM	1.3	1.3	UG/L	U
001092	Zinc, Total	N	E82502	6020	8/9/2009 7:05:00AM	20	4	UG/L	

Total Parameters Monitored: 247

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Facility Name: Trail Ridge

PARAMETER MONITORING REPORT

Rule 62-701

WACS Report Type:

Description: (2 Pages)

WACS Facility ID #: 33628

Sample Date/Time: 7/29/2009 12:00:00AM

WACS Testsite ID #: \_\_\_\_\_

Sampling Method: \_\_\_\_\_

WACS Testsite Name: Trip Blank

Permitted Well Type: Not Provided

Water Classification: LC

(i.e.: LC - Leachate, G-II, SW-IIIF)

\* Well Purged prior to  
Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
077562	1,1,1,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
034506	1,1,1-Trichloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.21	0.21	UG/L	U
034516	1,1,2,2-Tetrachloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.15	0.15	UG/L	U
034511	1,1,2-Trichloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.21	0.21	UG/L	U
034496	1,1-Dichloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.56	0.56	UG/L	U
034501	1,1-Dichloroethene	N	E82502	8260B	7/31/2009 11:12:00PM	0.16	0.16	UG/L	U
077168	1,1-Dichloropropene	N	E82502	8260B	7/31/2009 11:12:00PM	0.13	0.13	UG/L	U
077443	1,2,3-Trichloropropane	N	E82502	8260B	7/31/2009 11:12:00PM	0.16	0.16	UG/L	U
034551	1,2,4-Trichlorobenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.3	0.3	UG/L	U
049146	1,2-Dibromo-3-chloropropane (DBCP)	N	E82502	8260B	7/31/2009 11:12:00PM	0.26	0.26	UG/L	U
077651	1,2-Dibromoethane (EDB)	N	E82502	8260B	7/31/2009 11:12:00PM	0.18	0.18	UG/L	U
034536	1,2-Dichlorobenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.17	0.17	UG/L	U
034541	1,2-Dichloropropane	N	E82502	8260B	7/31/2009 11:12:00PM	0.057	0.057	UG/L	U
034566	1,3-Dichlorobenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.14	0.14	UG/L	U
077173	1,3-Dichloropropane	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
034571	1,4-Dichlorobenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.14	0.14	UG/L	U
077170	2,2-Dichloropropane	N	E82502	8260B	7/31/2009 11:12:00PM	0.22	0.22	UG/L	U
081595	2-Butanone (MEK)	N	E82502	8260B	7/31/2009 11:12:00PM	0.56	0.56	UG/L	U
077103	2-Hexanone	N	E82502	8260B	7/31/2009 11:12:00PM	0.36	0.36	UG/L	U
078109	3-Chloro-1-propene	N	E82502	8260B	7/31/2009 11:12:00PM	0.13	0.13	UG/L	U
081596	4-methyl-2-pentanone (MIBK)	N	E82502	8260B	7/31/2009 11:12:00PM	0.37	0.37	UG/L	U
081552	Acetone	N	E82502	8260B	7/31/2009 11:12:00PM	2.4	2.4	UG/L	U
076997	Acetonitrile	N	E82502	8260B	7/31/2009 11:12:00PM	3.3	3.3	UG/L	U
034210	Acrolein	N	E82502	8260B	7/31/2009 11:12:00PM	9.6	9.6	UG/L	U
034215	Acrylonitrile	N	E82502	8260B	7/31/2009 11:12:00PM	0.59	0.59	UG/L	U
078124	Benzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.52	0.52	UG/L	U
073085	Bromochloromethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.14	0.14	UG/L	U
032101	Bromodichloromethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
032104	Bromoform	N	E82502	8260B	7/31/2009 11:12:00PM	0.12	0.12	UG/L	U
034413	Bromomethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.14	0.14	UG/L	U
077041	Carbon disulfide	N	E82502	8260B	7/31/2009 11:12:00PM	0.84	0.84	UG/L	U
032102	Carbon tetrachloride	N	E82502	8260B	7/31/2009 11:12:00PM	0.18	0.18	UG/L	U
034488	CFC-11	N	E82502	8260B	7/31/2009 11:12:00PM	0.25	0.25	UG/L	U
034668	CFC-12	N	E82502	8260B	7/31/2009 11:12:00PM	0.23	0.23	UG/L	U
034301	Chlorobenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.15	0.15	UG/L	U
034311	Chloroethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.19	0.19	UG/L	U
032106	Chloroform	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
034418	Chloromethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.17	0.17	UG/L	U
081520	Chloroprene	N	E82502	8260B	7/31/2009 11:12:00PM	0.24	0.24	UG/L	U
077093	cis-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 11:12:00PM	0.12	0.12	UG/L	U
034704	cis-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 11:12:00PM	0.12	0.12	UG/L	U
032105	Dibromochloromethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.11	0.11	UG/L	U
046361	Dibromomethane	N	E82502	8260B	7/31/2009 11:12:00PM	0.12	0.12	UG/L	U
073570	Ethyl Methacrylate	N	E82502	8260B	7/31/2009 11:12:00PM	0.14	0.14	UG/L	U

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Printed: 8/14/2009

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Form Produced by FDEP Validator software

WACS Facility ID #: 33628  
 WACS Testsite ID #: \_\_\_\_\_  
 WACS Testsite Name: Trip Blank  
 Water Classification: LC  
 (i.e.: LC - Leachate, G-II, SW-IIIIF)

Sample Date/Time: 7/29/2009 12:00:00AM  
 Sampling Method: \_\_\_\_\_  
 Permitted Well Type: Not Provided

\* Well Purged prior to  
 Sample Collection? (Y/N):

STORET Code	Parameter Monitored	Field Filtered (Y/N)	NELAC Lab Certification # (DOHE)	Analysis Method	Analysis Date/Time	Analysis Result	Detection Limit	Units	Qual
034371	Ethylbenzene	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
034531	Ethylene dichloride	N	E82502	8260B	7/31/2009 11:12:00PM	0.15	0.15	UG/L	U
034391	Hexachlorobutadiene	N	E82502	8260B	7/31/2009 11:12:00PM	0.61	0.61	UG/L	U
077424	Iodomethane (Methyl iodide)	N	E82502	8260B	7/31/2009 11:12:00PM	2.5	2.5	UG/L	U
077033	Isobutyl alcohol	N	E82502	8260B	7/31/2009 11:12:00PM	4.6	4.6	UG/L	U
085795	m&p-Xylenes	N	E82502	8260B	7/31/2009 11:12:00PM	0.22	0.22	UG/L	U
081593	Methacrylonitrile	N	E82502	8260B	7/31/2009 11:12:00PM	0.2	0.2	UG/L	U
081597	Methyl methacrylate	N	E82502	8260B	7/31/2009 11:12:00PM	0.21	0.21	UG/L	U
034423	Methylene Chloride	N	E82502	8260B	7/31/2009 11:12:00PM	0.72	0.72	UG/L	U
034696	Naphthalene	N	E82502	8260B	7/31/2009 11:12:00PM	0.25	0.25	UG/L	U
077135	o-Xylene	N	E82502	8260B	7/31/2009 11:12:00PM	0.1	0.1	UG/L	U
077007	Propionitrile	N	E82502	8260B	7/31/2009 11:12:00PM	0.87	0.87	UG/L	U
077128	Styrene	N	E82502	8260B	7/31/2009 11:12:00PM	0.051	0.051	UG/L	U
034475	Tetrachloroethene	N	E82502	8260B	7/31/2009 11:12:00PM	0.22	0.22	UG/L	U
034010	Toluene	N	E82502	8260B	7/31/2009 11:12:00PM	0.52	0.52	UG/L	U
034546	trans-1,2-Dichloroethene	N	E82502	8260B	7/31/2009 11:12:00PM	0.13	0.13	UG/L	U
034699	trans-1,3-Dichloropropene	N	E82502	8260B	7/31/2009 11:12:00PM	0.12	0.12	UG/L	U
049263	trans-1,4-Dichloro-2-butene	N	E82502	8260B	7/31/2009 11:12:00PM	1.1	1.1	UG/L	U
039180	Trichloroethene	N	E82502	8260B	7/31/2009 11:12:00PM	0.15	0.15	UG/L	U
077057	Vinyl acetate	N	E82502	8260B	7/31/2009 11:12:00PM	0.6	0.6	UG/L	U
039175	Vinyl Chloride	N	E82502	8260B	7/31/2009 11:12:00PM	0.25	0.25	UG/L	U

Total Parameters Monitored: 65

\* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



