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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Altamont Environmental, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Marta A. VanDussen Phone: (828) 281 3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Jackson County Municipal Solid Waste Landfill	US Highway 441 Dillsboro, NC 28725	50-02	.1600	April 13, 2010

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Alec Macbeth P.G. (828) 281 3350 ext.215

Facility Representative Name (Print) Title (Area Code) Telephone Number

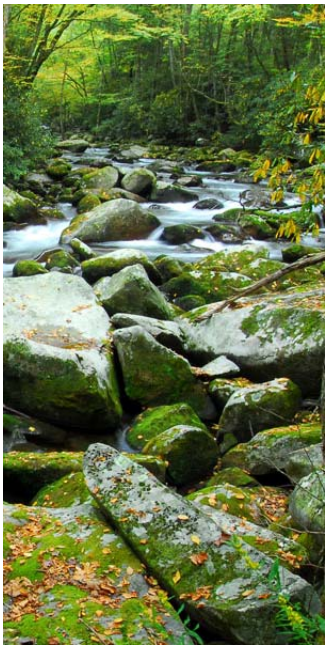
Alexander P. Macbeth 6/30/10

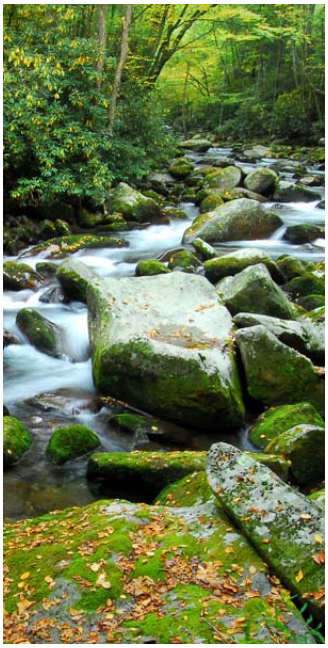
Signature Date

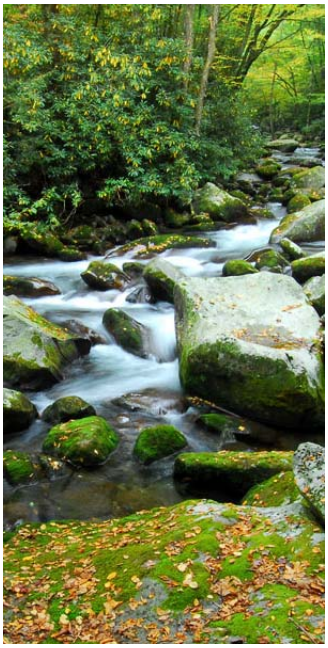
Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2205 GEOLOGIST ALEXANDER PAUL MACBETH

Revised 01/2007







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Spring 2010 Semiannual Water Quality Monitoring Report

Jackson County Municipal Solid Waste Landfill

June 30, 2010

Prepared for
Jackson County Solid Waste Department

Prepared by
Altamont Environmental, Inc.
231 Haywood Street
Asheville, NC 28801
(828) 281-3350

Spring 2010 Semiannual Water Quality Monitoring Report

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Alec Macbeth, PG
Project Geologist

Table of Contents

1.0 Introduction 1

2.0 Semiannual Monitoring 2

2.1 Monitoring Well and Surface Water Well Sampling 2

2.2 Monitoring Well Purging and Sampling Methods 2

2.2.1 Monitoring Well MW-05 2

2.2.2 Remaining Monitoring Wells 2

2.2.3 Surface Water Sampling Methods 3

2.3 Sample Handling, Documentation, and Analysis 3

3.0 Findings 4

3.1 Analytical Results 4

3.1.1 Groundwater-Monitoring Wells 4

3.1.1.1 Appendix II Metals 4

3.1.1.2 Appendix II VOCs 4

3.1.2 Surface Water 5

3.1.2.1 Appendix II Metals 5

3.1.2.2 Appendix II VOCs 5

3.2 Hydrogeology 6

3.3 Statistical Evaluation 6

3.3.1 Appendix II Metals 7

3.3.2 Appendix II VOCs 7

4.0 Summary 8

4.1 Groundwater—Monitoring Wells 8

4.1.1 Appendix II Metals 8

4.1.2 Appendix II VOCs 8

4.2 Surface Water 9

Figures

1. Site Location Map
2. Sample Point and Gas Probe Location Map
3. Generalized Groundwater Flow Direction—Saprolite and Partially Weathered Bedrock Zones

Tables

1. Summary of Laboratory Analyses Performed on Samples
2. Analytical Data and Field Parameters
3. Solid Waste Section Limit Exceedance Notification
4. Water Quality Standards Exceedance Notification
5. Well Construction Details and Corresponding Elevations
6. Summary of Student's *t*-Test Analysis of Detected Constituents

Appendices

A. Well Sampling Logs and Equipment Calibration Data Sheet(s)
B. Laboratory Analytical Reports and Chain-of-Custody Documentation

1.0 Introduction

The Jackson County Solid Waste Department maintains a closed Municipal Solid Waste Landfill (MSWLF) located approximately 0.75 miles west of Dillsboro, North Carolina, on the northeast side of Old Dillsboro Road (Old U.S. Highway 74; Figure 1). The water quality monitoring at the landfill is governed by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM), Solid Waste Section (SWS), under Permit No. 50-02 issued to Jackson County. The landfill permit requires semiannual monitoring of groundwater and surface water quality.

This report serves as the first semiannual water quality monitoring report for 2010 and provides an evaluation of groundwater and surface water quality. Statistical analyses performed on groundwater analytical data, as well as the generalized groundwater flow direction in the upper parts of the underlying aquifer, are also provided in the report.

The water samples are collected from selected monitoring points during the spring and again in the fall of each year. The analytical suites associated with the current sampling event (Table 1) and upcoming sampling events are as follows:

Sampling Event	Analytical Suite
Spring 2010	Appendix I VOCs Appendix I metals
Fall 2010	Appendix II VOCs Appendix II metals Appendix II herbicides Cyanide and sulfide Appendix II semivolatile organic compounds (SVOCs) Appendix II polychlorinated biphenyls (PCBs) Appendix II pesticides Appendix II organochloropesticides
Spring 2011	Appendix I VOCs Appendix I metals
Fall 2011	Appendix II volatile organic compounds (VOCs) Appendix II metals Appendix II herbicides Cyanide and sulfide

The spring 2010 sampling event was conducted and is being reported in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules codified under Title 15A Subchapter 13B of the North Carolina Administrative Code (15A NCAC 13B).

This report contains the following information:

- Depth to groundwater measurements and corresponding elevations in each landfill monitoring well
- Groundwater and surface water sampling locations
- Generalized groundwater flow direction in upper part of aquifer
- Groundwater and surface water analytical results
- Statistical evaluation of detected metals and VOCs
- Sampling logs
- Groundwater and surface water quality analytical results with chain-of-custody forms

2.0 Semiannual Monitoring

2.1 Monitoring Well and Surface Water Well Sampling

The closed MSWLF monitoring wells (5002-MW-01, 5002-MW-02, 5002-MW-03, 5002-MW-04, 5002-MW-05, and 5002-MW-06) and surface water sample locations (5002-SW-01 and 5002-SW-02) were sampled on April 13, 2010 by Altamont Environmental, Inc. (Altamont). In the remainder of this report, these sampling locations are referred to as MW-01 through MW-06, and SW-01 and SW-02, respectively. The monitoring well and surface water sample locations are depicted on Figure 2. Well sampling logs are included in Appendix A.

2.2 Monitoring Well Purging and Sampling Methods

Prior to purging the monitoring wells, the static water level was gauged and an initial round of field parameters consisting of pH, specific conductivity (SC), dissolved oxygen (DO), turbidity, temperature, and oxidation reduction potential (ORP) was measured. Static water level measurements and field parameter data are included in Table 2.

Altamont personnel used a bladder pump or disposable bailers at each monitoring well to purge the well and collect a groundwater sample. Total depth, condition of the casing, and the groundwater recharge rate determined the purging and sample collection method employed at each monitoring well.

2.2.1 Monitoring Well MW-05

The casing of monitoring well MW-05 is bent and the down-hole pump used for the low-flow sampling could not be lowered to the appropriate depth to collect a groundwater sample. Altamont personnel used three, 0.5-inch outside-diameter (OD) disposable polyethylene bailers securely fastened together to purge three well volumes and subsequently collect a groundwater sample. Care was taken during the bailing to minimize agitation of the water within the well. Based upon Altamont's experience, the turbidity value associated with the sample (30.59 nephelometric turbidity units [NTUs]) is relatively low for a bailed well. Specific conductivity, pH, DO, turbidity, ORP, and temperature were recorded after each well volume was purged.

2.2.2 Remaining Monitoring Wells

A bladder pump and low-flow techniques were used to purge and sample the remaining compliance monitoring wells, MW-01, MW-02, MW-03, MW-04, and MW-06. The monitoring wells were purged using low-flow techniques in accordance with the procedures described in the US Environmental Protection Agency's (EPA's) *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA, 1996). During purging, the pH, specific conductivity, dissolved oxygen, ORP, turbidity, and temperature were measured and recorded approximately every three minutes. Well purging continued until these parameters generally stabilized for three consecutive readings. The required stabilization criteria were as follows:

- pH values within +/- 0.1 unit
- Specific conductivity values within +/- 5 percent
- Temperature, dissolved oxygen, and turbidity values within +/- 10 percent
- ORP values within +/- 10 millivolts

Once the parameters had stabilized, a groundwater sample was collected using laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

2.2.3 Surface Water Sampling Methods

Surface water samples SW-01 and SW-02 were collected at designated locations from the Tuckasegee River, which is adjacent to the landfill to the southwest. Surface water sample SW-01 is representative of surface water quality upstream of the landfill; SW-02 is representative of surface water quality downstream from the landfill. One round of field parameters, consisting of temperature, pH, SC, DO, ORP, and turbidity, was measured and recorded at each surface-water sampling location prior to collecting the sample (Table 2). The surface water samples were collected in laboratory-provided sample containers by a technician wearing a new pair of nitrile gloves.

2.3 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to the MSWLF sampling locations are provided on sampling logs (Appendix A). Following sample collection, each groundwater and surface water sample was immediately placed on ice in a sample cooler for transport to Pace Analytical Laboratories (Pace), a North Carolina certified laboratory located in Asheville, North Carolina. The surface water samples and the groundwater samples collected from the monitoring wells were analyzed for the following parameters:

- Appendix II VOCs using EPA Method 8260
- Appendix II metals using EPA Methods 6010, 6020 and 7470

Proper chain-of-custody documentation was followed during collection and transportation of each sample (Appendix B). A trip blank was included in the sample cooler and analyzed for Appendix II VOCs. The laboratory analytical reports are provided in Appendix B. Laboratory analyses performed on the samples are summarized in Table 1.

3.0 Findings

3.1 Analytical Results

The laboratory analytical results for the groundwater samples (from monitoring wells MW-01 through MW-06) and surface water samples (SW-01 and SW-02) collected at the MSWLF are summarized in Table 2. This table is presented in the Electronic Data Deliverable (EDD) format specified by a DENR DWM SWS memorandum dated October 27, 2006 (DENR, 2006). The laboratory analytical reports issued by Pace and chain-of-custody forms are included in Appendix B.

As stipulated in DENR (2006), all laboratory analytical results were reported and appropriately qualified. Non-detections (non-detects), which are values reported by the laboratory as below method detection limits (MDLs), are tabulated on Table 2 as "Below Quantitation Limit" (BQL), and are qualified with the "U" qualifier. The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99% confidence that the constituent concentration is greater than zero. All detections (values above the MDL) were compared to constituent-specific Solid Waste Section Limits (SWSLs) established by DENR. The SWSL is defined as the lowest concentration of a constituent in a sample that can be quantitatively determined with suitable precision and accuracy. If a reported concentration is above the laboratory MDL but below the SWSL, the analytical result is qualified as estimated (J-flagged). Detected concentrations of constituents below the applicable SWSLs are summarized in Table 2. They are not, however, reported in the text of this report, unless they exceed their applicable North Carolina water quality standards (defined below).

Detected concentrations of constituents in groundwater samples were compared to the applicable North Carolina groundwater quality standards. For most constituents, this standard is the 2L Standard, from 15A NCAC 2L.0202. Detected concentrations of constituents in groundwater with no established 2L Standard were compared to the Groundwater Protection Standards (GWPSs) pursuant to 15A NCAC 13B.1634.

Surface water sample detections were compared to the standards presented in 15A NCAC 2B (2B Standard).

3.1.1 Groundwater-Monitoring Wells

Analytical results for groundwater samples collected from the monitoring wells are discussed below.

3.1.1.1 Appendix II Metals

- Three metals (barium, cobalt, and zinc) were detected in samples collected from one or more of the monitoring wells at concentrations above the SWSLs (Table 3).
- Two metals, cobalt and thallium, were detected in one groundwater sample (MW-01) at concentrations above their GWPSs (Table 4).
  - Cobalt was detected at 312 micrograms per liter (µg/L). The metal's GWPS is 70 µg/L.
  - Thallium was detected at 0.50 J µg/L. Its GWPS is 0.28 µg/L.

3.1.1.2 Appendix II VOCs

- Seven VOCs (1,1-dichloroethane [1,1-DCA], 1,4- dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene [cis-1,2-DCE], trichloroethene [TCE], and vinyl chloride) were detected at concentrations above their respective SWSLs (Table 3).
- Four VOCs (1,1-DCA, 1,4-dichlorobenzene, benzene, and vinyl chloride) were detected at concentrations above their respective 2L Standards (Table 4).

- The detected concentration of 1,1-DCA (6.6 µg/L) in MW-01 exceeded the compound's 2L Standard (6 µg/L).
- The detected concentrations of 1,4-dichlorobenzene in MW-01 (11 µg/L) and MW-05 (12.1 µg/L) exceeded the compound's 2L Standard of 6 µg/L.
- The concentration of benzene detected in MW-01 (5.2 µg/L), MW-03 (1.3 µg/L), and MW-05 (2.0 µg/L) exceeded the compound's 2L Standard of 1 µg/L.
- Vinyl chloride was detected at a concentration above its 2L Standard (0.03 µg/L) in MW-05 (1.5 µg/L).

3.1.2 Surface Water

The following statements summarize detections of Appendix II metals and Appendix II VOCs in the two surface water samples collected during the April 2010 sampling event.

3.1.2.1 Appendix II Metals

- None of the metals detected in surface water samples SW-01 or SW-02 exceed the applicable SWSL and 2B Standards.

3.1.2.2 Appendix II VOCs

- VOCs were not detected in either of the surface water samples (SW-01 and SW-02).

3.2 Hydrogeology

Groundwater quality in the saprolite and bedrock is monitored at the MSWLF. Three bedrock monitoring wells, MW-01, MW-02, and MW-06, are located in the northern and northwestern portions of the site (Figure 3 and Table 5). Because these three wells are situated linearly and groundwater flow in fractured bedrock is complex, an accurate groundwater flow direction in bedrock cannot be reliably estimated.

Monitoring wells MW-03, MW-04, and MW-05 (Figure 3), located in the central, southwest-and southern parts of the landfill, are completed in the saprolite (including partially weathered rock [PWR]) water bearing zone. Water-level data collected from these monitoring wells (Table 5) indicate that groundwater flow direction in the saprolite and PWR is generally to the southwest, toward the Tuckasegee River (Figure 3).

3.3 Statistical Evaluation

Typically, an analysis of variance (ANOVA) procedure is used to compare concentration data from several compliance wells with concentration data from background wells. However, as stated in a letter from Altamont to DENR dated January 16, 2004, the MSWLF does not have an adequate background well. Monitoring well MW-01 was installed at a location that was considered to represent background water quality. The historical analytical results, though, suggest that groundwater quality at MW-01 is not representative of background groundwater conditions for the MSWLF. Therefore, a standard ANOVA procedure is not feasible for this landfill.

In lieu of an ANOVA procedure, Altamont performed the Student's *t*-test statistical procedure (*t*-test) to determine whether the historical mean concentration of a detected constituent in a given monitoring well is statistically greater than its respective 2L Standard or GWPS. The *t*-test is commonly used when comparing a time series of data (e.g., current and historic concentrations of a specific contaminant detected in samples collected from a specific well) to one given value (for example, the 2L Standard). Where applicable, GWPS values were used for constituents that did not have a listed 2L Standard.

The *t*-test evaluates the null hypothesis that the mean concentration of a detected constituent is equal to the 2L Standard. If the mean for a particular constituent is not statistically different than its respective 2L Standard, then the null hypothesis is accepted. However, if the mean for a particular constituent is statistically different than the respective 2L Standard, then the null hypothesis is rejected and the mean concentration is acknowledged to be greater than or less than the 2L Standard. This is determined by comparing the computed *t*-statistic to a tabulated *t*-statistic. The computed *t*-statistic takes into account the mean, standard deviation, number of data points, and the 2L Standard (or GWPS if a 2L Standard does not exist for the constituent).

Table 6 provides the results of the statistical analysis. Historical data from 1993 to April 2010 were used.

The tabulated *t*-statistic is derived from a standard *t*-distribution table and is based on the sample size and a pre-determined sensitivity value (α) of 0.01 as established by DENR, in 15A NCAC 13B.1632(h)(2). If the tabulated *t*-statistic exceeds the computed *t*-statistic, then the null hypothesis is accepted. If the tabulated t-statistic is less than the computed *t*-statistic, then the null hypothesis is rejected, and the alternate hypothesis is accepted (that is, the mean concentration of the constituent is greater than or less than the 2L Standard or GWPS).

The statistical analysis was performed on metals and VOCs that have been detected historically at the MSWLF (as listed on Table 6). Concentrations detected below the laboratory MDL (non-detects) during the current sampling event were replaced with the practical quantitation limit (PQL) specified by the laboratory in all datasets. The MDL was replaced with the PQL since the PQL is the minimum concentration of a constituent in a sample that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. Statistical

evaluation of a given constituent whose sample set contained a large amount of non-detects was not conducted if the PQL exceeded the groundwater quality standard of interest. Altamont consulted with Dr. Arthur Lubin, an environmental statistician with the EPA, on January 9, 2004, concerning the use of values reported as “non-detectable”. Dr. Lubin stated that a valid statistical comparison is not possible when a sample set contains non-detect values and the detection limit (or value used to replace non-detects) is greater than the associated groundwater standard. Dr. Lubin added that a qualitative analysis of the data is the only feasible option for this scenario. Statistical analyses were not performed for constituents that have not been detected historically; in the event of future detections, Altamont will conduct statistical analyses on these constituents.

3.3.1 Appendix II Metals

The results of the statistical analysis are summarized in Table 6. The statistical evaluation indicates that, on average, none of the metals exceed their respective 2L Standard or GWPS.

3.3.2 Appendix II VOCs

As summarized in Table 6, the mean concentrations of three detected VOCs, 1,1-DCA, 1,4-dichlorobenzene and benzene, are statistically greater than their respective 2L Standards in one or more of the monitoring wells.

The mean concentration of 1,1-DCA in one of the monitoring wells (MW-01) is statistically greater than its respective 2L Standard of 6 µg/L.

The mean concentration of 1,4-dichlorobenzene in one of the monitoring wells (MW-05) is statistically greater than its respective 2L Standard of 6 µg/L.

The mean concentration of benzene in three of the monitoring wells (MW-01, MW-05, and MW-06) is statistically greater than the respective 2L Standard of 1 µg/L. Use of the *t*-test to evaluate the concentration of benzene present in the remaining monitoring wells (MW-02, MW-03, and MW-04) is not valid because the majority of the datasets contain non-detect values. For example, benzene has never been detected in MW-02.

Statistical analysis of the other VOC, vinyl chloride, detected at concentrations above its 2L Standard during the April 2010 sampling event, cannot be accepted as valid because of the large number of non-detects in sample sets of each of the six monitoring wells. Additionally, the PQL of the compound is greater than the 2L standard.

No other VOCs detected in the samples collected from monitoring wells exceed applicable groundwater quality standards.

4.0 Summary

The first semiannual groundwater monitoring event of 2010 was conducted on April 13, 2010 at the Jackson County MSWLF.

4.1 Groundwater—Monitoring Wells

4.1.1 Appendix II Metals

Two metals (cobalt and thallium) were detected at concentrations above their GWPSs in the groundwater samples collected from one or more of the monitoring wells during the spring 2010 water quality monitoring event. The cobalt exceedence was detected only in MW-01 at 312 µg/L (the metal's GWPS is 70 µg/L). The sample's turbidity was 7.32 NTUs. The statistical analysis shows that the average historical concentration of cobalt is not significantly greater than the GWPS.

Thallium was detected at a concentration (0.5 µg/L) in excess of its GWPS (0.28 µg/L) in the same sample, MW-01. A statistical comparison of observed historical concentrations to the GWPS was not possible, because the thallium has not historically been detected in the monitoring wells and the value used to replace non-detects, the PQL, exceeds the GWPS.

Both of these metals were detected at concentrations exceeding their GWPS's during the October 2009 semiannual sampling event (Altamont, 2009).

4.1.2 Appendix II VOCs

Four VOCs (1,1-DCA, 1,4-dichlorobenzene, benzene, and vinyl chloride) were detected at concentrations above their 2L Standards in groundwater samples collected from the monitoring wells at the MSWLF.

1,1-DCA was detected in excess of the compound's 2L Standard (6 µg/L) in the groundwater sample MW-01 at 6.6 µg/L. Out of the six monitoring wells, the statistical analysis, using the Student's *t*-test, revealed that the mean concentration of 1,1-DCA is only significantly greater than the 2L Standard in this same monitoring well.

1,4-Dichlorobenzene was detected in excess of the compound's 2L Standard (6 µg/L) in two groundwater samples (MW-01 at 11 µg/L and MW-05 at 12.1 µg/L). Statistical analysis, using the Student's *t*-test, revealed that the mean concentration of 1,4-dichlorobenzene is significantly greater than the 2L Standard in only MW-05.

Concentrations of benzene detected in three groundwater samples (MW-01 at 5.2 µg/L; MW-03 at 1.3 µg/L; and MW-05 at 2 µg/L) exceed the compound's 2L Standard of 1.0 µg/L. Statistical analysis, using the Student's *t*-test, revealed that the mean concentration of benzene is significantly greater than the 2L Standard in samples MW-01, MW-05, and MW-06.

Vinyl chloride was detected at a concentration exceeding its 2L Standard (0.03 µg/L) in one groundwater sample (MW-05 at 1.5 µg/L), which exceeds the compound's 2L Standard. A statistical analysis of the vinyl chloride dataset is not valid as the sample set contains a majority of historical non-detect values (PQLs) that are greater than the current 2L Standard.

A review of historical groundwater data indicates that three of these compounds, 1,1-DCA, 1,4-dichlorobenzene, benzene, and vinyl chloride have been detected at comparable concentrations for the past several years. The 2L Standard for 1,1-DCA was decreased from 70 µg/L to 6 µg/L in January 2010. Historical surface water samples from the Tuckasegee River, which likely receives discharge from the saprolite groundwater bearing zone, have consistently shown no detections of these compounds, or any other VOCs.

4.2 Surface Water

Concentrations of Appendix II metals detected in either of the surface water samples collected upstream and downstream from the Tuckasegee River were below their applicable SWSLs.

VOCs were not present in the surface water samples. On the basis of these data it appears that groundwater likely discharging from under the landfill into the Tuckasegee River is not impacting its surface water quality with regard to Appendix II VOCs or metals.

Altamont will continue to monitor the water quality on a semiannual basis at the MSWLF. The next semiannual sampling event, which will consist of analyses for Appendix II VOCs, Appendix II metals, Appendix II herbicides, cyanide and sulfide, Appendix II SVOCs, Appendix II PCBs, Appendix II pesticides, and Appendix II organochloropesticides, is scheduled for the fall of 2010.

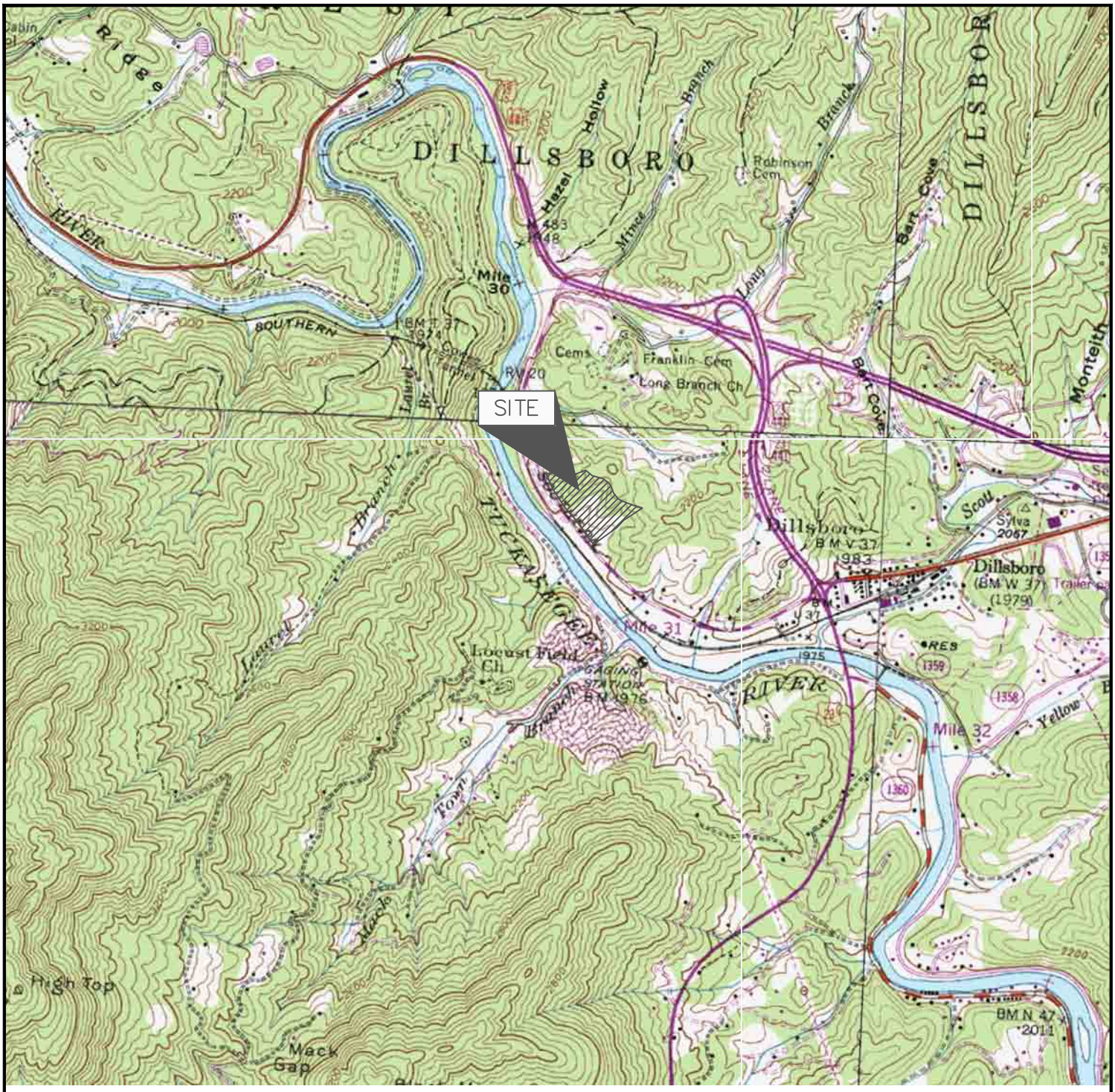
5.0 References

Altamont Environmental, Inc. 2009. Fall 2009 Semiannual Water Quality Monitoring Report, Jackson County Municipal Solid Waste Landfill, dated December 11, 2009.

North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management, Solid Waste Section. 2006. Memorandum to SW Director/County Manager/Consultant/Laboratory, *Re: New Guidelines for Electronic Submittal of Environmental Monitoring Data,* dated October 27, 2006.

U.S. Environmental Protection Agency (EPA). 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, OSWER, EPA/540/S-95/504.

FIGURES



SOURCE: USGS TOPOGRAPHIC MAPS; NORTH CAROLINA QUADRANGLES ARE AT A SCALE OF 1:24,000
GREENS CREEK (CREATED:1940, REVISED:1978)
SYLVA NORTH (CREATED: 1967, REVISED 1978)
SYLVA SOUTH (CREATED: 1946, REVISED 1990)
WHITTIER (CREATED: 1967, REVISED 1978)

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SITE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 1

DRAWN BY: KATIE MASSIE
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 12/11/2009

SCALE (FEET)
1000 0 1000 2000

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\2010\ FIGURE 1

LEGEND:

MW-1	MONITORING WELL LOCATION
SW-1	SURFACE WATER SAMPLE LOCATION
GP-1	GAS PROBE LOCATION
DW-01	APPROXIMATE DOMESTIC WATER SUPPLY WELL LOCATION
PMW-01	PRIVATE MONITORING WELL LOCATION
SPRING-NW	SPRING LOCATION
FOWLER	PROPERTY OWNER SURNAME

NOTE:

1. TOPOGRAPHIC CONTOURS WERE ACQUIRED FROM A McGILL ASSOCIATES DRAWING AND ARE FOR REPRESENTATIVE PURPOSES ONLY.
2. LOCATIONS OF DOMESTIC WATER SUPPLY WELLS DW-01 AND DW-02 ARE APPROXIMATE.

REV.	DATE	DESCRIPTION	BY	CHK	APV
11	11-02-09	UPDATE	KRM	APM	
10	06-01-09	UPDATE	MAV		
9	06-09-08	UPDATE	KRM	JDH	
8	01-24-08	UPDATE	KRM	JDH	
7	11-03-06	NEW TITLE BLOCK	JK	CFG	
. . .	. . .	. . .	...	...	
2	05-13-02	UPDATE	SEK	JSM	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: KATIE MASSIE
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 12/11/2009

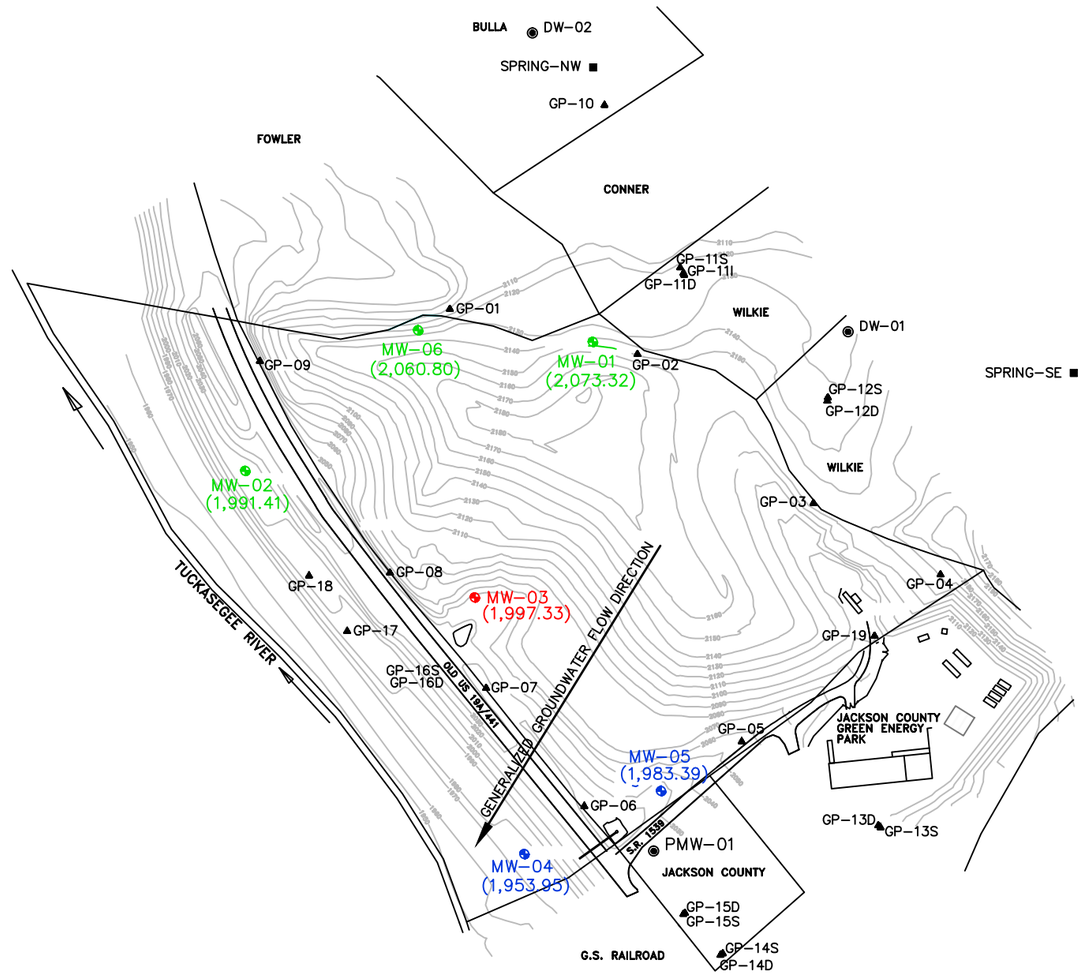
SCALE (FEET)
150 0 150 300

SAMPLE POINT AND GAS PROBE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 2

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 2-WELL LOCATION MAP (12-2009)



LEGEND:

- MW-1 MONITORING WELL LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- GP-1 GAS PROBE LOCATION
- PMW-01 PRIVATE MONITORING WELL LOCATION
- DW-1 DOMESTICWATER SUPPLY WELL
- SPRING-NW SPRING LOCATION
- (2066.53) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL ON OCTOBER 6, 7, AND 22, 2009
- FOWLER PROPERTY OWNER SURNAME
- SAPROLITE MONITORING WELL LOCATION
- PARTIALLY WEATHERED ROCK MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

NOTE:

1. TOPOGRAPHIC CONTOURS ARE OBTAINED FROM McGILL ASSOCIATES AND ARE FOR REPRESENTATIVE PURPOSES ONLY.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS IN FEET IN MONITORING WELLS MW-03, MW-04, AND MW-05 CALCULATED BASED ON DEPTH TO WATER MEASURED ON APRIL 13, 2010.
3. GROUNDWATER ELEVATIONS AND FLOW DIRECTION ARE UPDATED ON A SEMI-ANNUAL BASIS EVERY APRIL AND OCTOBER FOLLOWING THE SAMPLE COLLECTION EVENTS.

REV.	DATE	DESCRIPTION	BY	CHK	APV
5	11-11-09	UPDATE	KRM	APM	
4	06-01-09	UPDATE	MAV	JDH	
3	06-09-08	UPDATE	KM	JDH	
2	10-30-06	NEW TITLE BLOCK	JK	JDH	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: KATIE MASSIE
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 05/27/2010

SCALE (FEET)
150 0 150 300

GENERALIZED GROUNDWATER FLOW DIRECTION-SAPROLITE AND PARTIALLY WEATHERED BEDROCK ZONES

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 3

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 3-FLOW DIRECTION_12-2009

TABLES

Table 1
Summary of Laboratory Analyses Performed on Samples
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

Groundwater Samples			
Sample Name	Date Collected	Appendix I Metals	Appendix I VOCs
		EPA 6010 EPA 6020 EPA 7470	EPA 8260
MW-01	4/13/2010	X	X
MW-02	4/13/2010	X	X
MW-03	4/13/2010	X	X
MW-04	4/13/2010	X	X
MW-05	4/13/2010	X	X
MW-06	4/13/2010	X	X
Trip Blank	4/13/2010		X
Surface Water Samples			
Sample Name	Date Collected	Appendix II Metals	Appendix II VOCs
		EPA 6010 EPA 6020 EPA 7470	EPA 8260
SW-01	4/13/2010	X	X
SW-02	4/13/2010	X	X

Notes:
VOCs = volatile organic compounds

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-01	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-39-3	15	Barium	107	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-47-3	51	Chromium	BQL	µg/L	U	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-48-4	53	Cobalt	**312**	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-50-8	54	Copper	1.3	µg/L	J	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-01	7440-02-0	152	Nickel	14.6	µg/L	J	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-28-0	194	Thallium	**0.50**	µg/L	J	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-01	7440-62-2	209	Vanadium	BQL	µg/L	U	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-66-6	213	Zinc	11.4	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/15/10	12
50-02	MW-01	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/15/10	12
50-02	MW-01	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/15/10	12
50-02	MW-01	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/15/10	12
50-02	MW-01	75-34-3	75	1,1-Dichloroethane	**6.6**	µg/L		EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-01	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/15/10	12
50-02	MW-01	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/15/10	12
50-02	MW-01	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/15/10	12
50-02	MW-01	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-01	95-50-1	69	1,2-Dichlorobenzene	0.32	µg/L	J	EPA 8260	1.0	0.30	5	1	04/13/10		04/15/10	12
50-02	MW-01	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/15/10	12
50-02	MW-01	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-01	106-46-7	71	1,4-Dichlorobenzene	**11.0**	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-01	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/15/10	12
50-02	MW-01	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/15/10	12
50-02	MW-01	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/15/10	12
50-02	MW-01	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/15/10	12
50-02	MW-01	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/15/10	12
50-02	MW-01	71-43-2	16	Benzene	**5.2**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-01	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/15/10	12
50-02	MW-01	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/15/10	12
50-02	MW-01	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/15/10	12
50-02	MW-01	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/15/10	12
50-02	MW-01	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/15/10	12
50-02	MW-01	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-01	108-90-7	39	Chlorobenzene	3.9	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-01	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/15/10	12
50-02	MW-01	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/15/10	12
50-02	MW-01	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/15/10	12
50-02	MW-01	156-59-2	78	cis-1,2-Dichloroethene	10.8	µg/L		EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-01	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/15/10	12
50-02	MW-01	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/15/10	12
50-02	MW-01	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/15/10	12
50-02	MW-01	100-41-4	110	Ethylbenzene	0.33	µg/L	J	EPA 8260	1.0	0.30	1	1	04/13/10		04/15/10	12
50-02	MW-01	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/15/10	12
50-02	MW-01	1330-20-7	359	m&p-Xylene	1.5	µg/L	J	EPA 8260	2.0	0.66	NE	1	04/13/10		04/15/10	12
50-02	MW-01	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/15/10	12
50-02	MW-01	95-47-6	408	o-Xylene	3.5	µg/L		EPA 8260	1.0	0.23	NE	1	04/13/10		04/15/10	12
50-02	MW-01	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-01	127-18-4	192	Tetrachloroethene	0.69	µg/L	J	EPA 8260	1.0	0.46	1	1	04/13/10		04/15/10	12
50-02	MW-01	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-01	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/15/10	12
50-02	MW-01	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-01	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/15/10	12
50-02	MW-01	79-01-6	201	Trichloroethene	1.3	µg/L		EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-01	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/15/10	12
50-02	MW-01	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/15/10	12
50-02	MW-01	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12
50-02	MW-01	1330-20-7	346	Xylene (Total)	5.0	µg/L		EPA 8260	2.0	0.66	5	1	04/13/10		04/15/10	12
50-02	MW-01	SW356	356	Dissolved Oxygen	2.26	mg/L							04/13/10			
50-02	MW-01	SW336	336	Oxidation Reduction Potential	30.6	mV							04/13/10			
50-02	MW-01	SW320	320	pH	5.66	standard							04/13/10			
50-02	MW-01	SW323	323	Specific Conductivity	109	µS							04/13/10			
50-02	MW-01	SW325	325	Temperature	16.15	°C							04/13/10			
50-02	MW-01	SW330	330	Turbidity	7.32	NTU							04/13/10			
50-02	MW-01	SW318	318	Depth to Water	98.10	ft TOC							04/13/10			
50-02	MW-01	SW411	411	Total Well Depth	110.5	ft bgs										
50-02	MW-01	SW328	328	Top of Casing	2,171.42	ft msl										
50-02	MW-02	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-39-3	15	Barium	45.3	µg/L	J	EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-47-3	51	Chromium	1.2	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-48-4	53	Cobalt	12.1	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-50-8	54	Copper	BQL	µg/L	U	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-02	7440-02-0	152	Nickel	BQL	µg/L	U	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-28-0	194	Thallium	0.11	µg/L	J	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-02	7440-62-2	209	Vanadium	0.28	µg/L	J	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-66-6	213	Zinc	64.4	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-02	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/15/10	12
50-02	MW-02	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/15/10	12
50-02	MW-02	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/15/10	12
50-02	MW-02	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/15/10	12
50-02	MW-02	75-34-3	75	1,1-Dichloroethane	0.43	µg/L	J	EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-02	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/15/10	12
50-02	MW-02	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/15/10	12
50-02	MW-02	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/15/10	12
50-02	MW-02	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-02	95-50-1	69	1,2-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/15/10	12
50-02	MW-02	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/15/10	12
50-02	MW-02	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-02	106-46-7	71	1,4-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-02	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/15/10	12
50-02	MW-02	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/15/10	12
50-02	MW-02	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/15/10	12
50-02	MW-02	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/15/10	12
50-02	MW-02	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/15/10	12
50-02	MW-02	71-43-2	16	Benzene	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-02	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/15/10	12
50-02	MW-02	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/15/10	12
50-02	MW-02	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/15/10	12
50-02	MW-02	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/15/10	12
50-02	MW-02	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/15/10	12
50-02	MW-02	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-02	108-90-7	39	Chlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-02	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/15/10	12
50-02	MW-02	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/15/10	12
50-02	MW-02	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/15/10	12
50-02	MW-02	156-59-2	78	cis-1,2-Dichloroethene	0.87	µg/L	J	EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-02	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/15/10	12
50-02	MW-02	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/15/10	12
50-02	MW-02	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/15/10	12
50-02	MW-02	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/15/10	12
50-02	MW-02	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/15/10	12
50-02	MW-02	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/15/10	12
50-02	MW-02	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/15/10	12
50-02	MW-02	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/15/10	12
50-02	MW-02	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-02	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/15/10	12
50-02	MW-02	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-02	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/15/10	12
50-02	MW-02	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-02	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/15/10	12
50-02	MW-02	79-01-6	201	Trichloroethene	0.62	µg/L	J	EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-02	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/15/10	12

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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-02	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/15/10	12
50-02	MW-02	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12
50-02	MW-02	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/15/10	12
50-02	MW-02	SW356	356	Dissolved Oxygen	11.91	mg/L							04/13/10			
50-02	MW-02	SW336	336	Oxidation Reduction Potential	181.8	mV							04/13/10			
50-02	MW-02	SW320	320	pH	5.78	standard							04/13/10			
50-02	MW-02	SW323	323	Specific Conductivity	83	µS							04/13/10			
50-02	MW-02	SW325	325	Temperature	16.20	°C							04/13/10			
50-02	MW-02	SW330	330	Turbidity	18.90	NTU							04/13/10			
50-02	MW-02	SW318	318	Depth to Water	23.97	ft TOC							04/13/10			
50-02	MW-02	SW411	411	Total Well Depth	63	ft bgs										
50-02	MW-02	SW328	328	Top of Casing	2,015.38	ft msl										
50-02	MW-03	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-39-3	15	Barium	144	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-47-3	51	Chromium	1.1	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-48-4	53	Cobalt	32.2	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-50-8	54	Copper	BQL	µg/L	U	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-03	7440-02-0	152	Nickel	BQL	µg/L	U	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-28-0	194	Thallium	0.16	µg/L	J	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-03	7440-62-2	209	Vanadium	BQL	µg/L	U	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-66-6	213	Zinc	27.2	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/15/10	12
50-02	MW-03	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/15/10	12
50-02	MW-03	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/15/10	12
50-02	MW-03	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/15/10	12
50-02	MW-03	75-34-3	75	1,1-Dichloroethane	0.47	µg/L	J	EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-03	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/15/10	12
50-02	MW-03	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/15/10	12
50-02	MW-03	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/15/10	12
50-02	MW-03	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-03	95-50-1	69	1,2-Dichlorobenzene	0.30	µg/L	J	EPA 8260	1.0	0.30	5	1	04/13/10		04/15/10	12
50-02	MW-03	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/15/10	12
50-02	MW-03	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-03	106-46-7	71	1,4-Dichlorobenzene	3.5	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-03	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/15/10	12
50-02	MW-03	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/15/10	12
50-02	MW-03	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/15/10	12

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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

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50-02	MW-03	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/15/10	12
50-02	MW-03	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/15/10	12
50-02	MW-03	71-43-2	16	Benzene	**1.3**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-03	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/15/10	12
50-02	MW-03	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/15/10	12
50-02	MW-03	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/15/10	12
50-02	MW-03	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/15/10	12
50-02	MW-03	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/15/10	12
50-02	MW-03	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-03	108-90-7	39	Chlorobenzene	9.8	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-03	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/15/10	12
50-02	MW-03	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/15/10	12
50-02	MW-03	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/15/10	12
50-02	MW-03	156-59-2	78	cis-1,2-Dichloroethene	1.0	µg/L	J	EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-03	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/15/10	12
50-02	MW-03	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/15/10	12
50-02	MW-03	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/15/10	12
50-02	MW-03	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/15/10	12
50-02	MW-03	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/15/10	12
50-02	MW-03	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/15/10	12
50-02	MW-03	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/15/10	12
50-02	MW-03	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/15/10	12
50-02	MW-03	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-03	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/15/10	12
50-02	MW-03	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-03	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/15/10	12
50-02	MW-03	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-03	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/15/10	12
50-02	MW-03	79-01-6	201	Trichloroethene	0.52	µg/L	J	EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-03	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/15/10	12
50-02	MW-03	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/15/10	12
50-02	MW-03	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12
50-02	MW-03	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/15/10	12
50-02	MW-03	SW356	356	Dissolved Oxygen	3.64	mg/L							04/13/10			
50-02	MW-03	SW336	336	Oxidation Reduction Potential	195.8	mV							04/13/10			
50-02	MW-03	SW320	320	pH	5.35	standard							04/13/10			
50-02	MW-03	SW323	323	Specific Conductivity	150	µS							04/13/10			
50-02	MW-03	SW325	325	Temperature	16.16	°C							04/13/10			
50-02	MW-03	SW330	330	Turbidity	10.18	NTU							04/13/10			
50-02	MW-03	SW318	318	Depth to Water	48.2	ft TOC							04/13/10			
50-02	MW-03	SW411	411	Total Well Depth	65.5	ft bgs										
50-02	MW-03	SW328	328	Top of Casing	2,045.53	ft msl										
50-02	MW-04	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40

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50-02	MW-04	7440-39-3	15	Barium	138	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-47-3	51	Chromium	2.0	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-48-4	53	Cobalt	1.0	µg/L	J	EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-50-8	54	Copper	0.33	µg/L	J	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7439-97-6	132	Mercury	0.31	µg/L		EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-04	7440-02-0	152	Nickel	BQL	µg/L	U	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-28-0	194	Thallium	0.074	µg/L	J	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-04	7440-62-2	209	Vanadium	BQL	µg/L	U	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-66-6	213	Zinc	18.7	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/15/10	12
50-02	MW-04	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/15/10	12
50-02	MW-04	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/15/10	12
50-02	MW-04	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/15/10	12
50-02	MW-04	75-34-3	75	1,1-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-04	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/15/10	12
50-02	MW-04	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/15/10	12
50-02	MW-04	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/15/10	12
50-02	MW-04	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-04	95-50-1	69	1,2-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/15/10	12
50-02	MW-04	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/15/10	12
50-02	MW-04	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-04	106-46-7	71	1,4-Dichlorobenzene	2.9	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-04	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/15/10	12
50-02	MW-04	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/15/10	12
50-02	MW-04	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/15/10	12
50-02	MW-04	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/15/10	12
50-02	MW-04	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/15/10	12
50-02	MW-04	71-43-2	16	Benzene	0.55	µg/L	J	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-04	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/15/10	12
50-02	MW-04	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/15/10	12
50-02	MW-04	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/15/10	12
50-02	MW-04	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/15/10	12
50-02	MW-04	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/15/10	12
50-02	MW-04	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-04	108-90-7	39	Chlorobenzene	2.4	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-04	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/15/10	12
50-02	MW-04	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/15/10	12
50-02	MW-04	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/15/10	12
50-02	MW-04	156-59-2	78	cis-1,2-Dichloroethene	4.3	µg/L	J	EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-04	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/15/10	12
50-02	MW-04	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/15/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-04	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/15/10	12
50-02	MW-04	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/15/10	12
50-02	MW-04	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/15/10	12
50-02	MW-04	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/15/10	12
50-02	MW-04	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/15/10	12
50-02	MW-04	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/15/10	12
50-02	MW-04	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-04	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/15/10	12
50-02	MW-04	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-04	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/15/10	12
50-02	MW-04	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-04	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/15/10	12
50-02	MW-04	79-01-6	201	Trichloroethene	0.47	µg/L	J	EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-04	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/15/10	12
50-02	MW-04	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/15/10	12
50-02	MW-04	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12
50-02	MW-04	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/15/10	12
50-02	MW-04	SW356	356	Dissolved Oxygen	2.02	mg/L							04/13/10			
50-02	MW-04	SW336	336	Oxidation Reduction Potential	183.6	mV							04/13/10			
50-02	MW-04	SW320	320	pH	5.65	standard							04/13/10			
50-02	MW-04	SW323	323	Specific Conductivity	253	µS							04/13/10			
50-02	MW-04	SW325	325	Temperature	15.49	°C							04/13/10			
50-02	MW-04	SW330	330	Turbidity	10.09	NTU							04/13/10			
50-02	MW-04	SW318	318	Depth to Water	26.82	ft TOC							04/13/10			
50-02	MW-04	SW411	411	Total Well Depth	43.0]	ft bgs										
50-02	MW-04	SW328	328	Top of Casing	1,980.77	ft msl										
50-02	MW-05	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-38-2	14	Arsenic	3.2	µg/L	J	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-39-3	15	Barium	199	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-47-3	51	Chromium	BQL	µg/L	U	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-48-4	53	Cobalt	22.1	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-50-8	54	Copper	BQL	µg/L	U	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-05	7440-02-0	152	Nickel	BQL	µg/L	U	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-28-0	194	Thallium	BQL	µg/L	U	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-05	7440-62-2	209	Vanadium	0.23	µg/L	J	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-66-6	213	Zinc	BQL	µg/L	U	EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/15/10	12
50-02	MW-05	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/15/10	12

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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-05	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/15/10	12
50-02	MW-05	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/15/10	12
50-02	MW-05	75-34-3	75	1,1-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-05	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/15/10	12
50-02	MW-05	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/15/10	12
50-02	MW-05	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/15/10	12
50-02	MW-05	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-05	95-50-1	69	1,2-Dichlorobenzene	0.38	µg/L	J	EPA 8260	1.0	0.30	5	1	04/13/10		04/15/10	12
50-02	MW-05	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/15/10	12
50-02	MW-05	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/15/10	12
50-02	MW-05	106-46-7	71	1,4-Dichlorobenzene	**12.1**	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-05	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/15/10	12
50-02	MW-05	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/15/10	12
50-02	MW-05	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/15/10	12
50-02	MW-05	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/15/10	12
50-02	MW-05	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/15/10	12
50-02	MW-05	71-43-2	16	Benzene	**2.0**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-05	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/15/10	12
50-02	MW-05	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/15/10	12
50-02	MW-05	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/15/10	12
50-02	MW-05	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/15/10	12
50-02	MW-05	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/15/10	12
50-02	MW-05	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-05	108-90-7	39	Chlorobenzene	9.2	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-05	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/15/10	12
50-02	MW-05	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/15/10	12
50-02	MW-05	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/15/10	12
50-02	MW-05	156-59-2	78	cis-1,2-Dichloroethene	17.8	µg/L		EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-05	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/15/10	12
50-02	MW-05	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/15/10	12
50-02	MW-05	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/15/10	12
50-02	MW-05	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/15/10	12
50-02	MW-05	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/15/10	12
50-02	MW-05	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/15/10	12
50-02	MW-05	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/15/10	12
50-02	MW-05	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/15/10	12
50-02	MW-05	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-05	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/15/10	12
50-02	MW-05	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-05	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/15/10	12
50-02	MW-05	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/15/10	12
50-02	MW-05	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/15/10	12
50-02	MW-05	79-01-6	201	Trichloroethene	0.55	µg/L	J	EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-05	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/15/10	12
50-02	MW-05	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/15/10	12
50-02	MW-05	75-01-4	211	Vinyl chloride	**1.5**	µg/L		EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-05	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/15/10	12
50-02	MW-05	SW356	356	Dissolved Oxygen	10.96	mg/L							04/13/10			
50-02	MW-05	SW336	336	Oxidation Reduction Potential	-58.7	mV							04/13/10			
50-02	MW-05	SW320	320	pH	6.76	standard							04/13/10			
50-02	MW-05	SW323	323	Specific Conductivity	468	µS							04/13/10			
50-02	MW-05	SW325	325	Temperature	17.72	°C							04/13/10			
50-02	MW-05	SW330	330	Turbidity	30.59	NTU							04/13/10			
50-02	MW-05	SW318	318	Depth to Water	45.58	ft TOC							04/13/10			
50-02	MW-05	SW411	411	Total Well Depth	60	ft bgs										
50-02	MW-05	SW328	328	Top of Casing	2,028.97	ft msl										
50-02	MW-06	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-39-3	15	Barium	65.3	µg/L	J	EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-47-3	51	Chromium	0.55	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-48-4	53	Cobalt	**122**	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-50-8	54	Copper	5.0	µg/L	J	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	MW-06	7440-02-0	152	Nickel	12.9	µg/L		EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-28-0	194	Thallium	0.090	µg/L	J	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	MW-06	7440-62-2	209	Vanadium	0.39	µg/L	J	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-66-6	213	Zinc	14.1	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/20/10	12
50-02	MW-06	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/20/10	12
50-02	MW-06	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/20/10	12
50-02	MW-06	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/20/10	12
50-02	MW-06	75-34-3	75	1,1-Dichloroethane	1.1	µg/L	J	EPA 8260	1.0	0.32	5	1	04/13/10		04/20/10	12
50-02	MW-06	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/20/10	12
50-02	MW-06	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/20/10	12
50-02	MW-06	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/20/10	12
50-02	MW-06	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/20/10	12
50-02	MW-06	95-50-1	69	1,2-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/20/10	12
50-02	MW-06	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/20/10	12
50-02	MW-06	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/20/10	12
50-02	MW-06	106-46-7	71	1,4-Dichlorobenzene	3.9	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/20/10	12
50-02	MW-06	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/20/10	12
50-02	MW-06	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/20/10	12
50-02	MW-06	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/20/10	12
50-02	MW-06	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/20/10	12
50-02	MW-06	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/20/10	12

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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-06	71-43-2	16	Benzene	**1.7**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/20/10	12
50-02	MW-06	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/20/10	12
50-02	MW-06	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/20/10	12
50-02	MW-06	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/20/10	12
50-02	MW-06	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/20/10	12
50-02	MW-06	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/20/10	12
50-02	MW-06	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/20/10	12
50-02	MW-06	108-90-7	39	Chlorobenzene	1.4	µg/L	J	EPA 8260	1.0	0.23	3	1	04/13/10		04/20/10	12
50-02	MW-06	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/20/10	12
50-02	MW-06	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/20/10	12
50-02	MW-06	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/20/10	12
50-02	MW-06	156-59-2	78	cis-1,2-Dichloroethene	5.9	µg/L		EPA 8260	1.0	0.19	5	1	04/13/10		04/20/10	12
50-02	MW-06	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/20/10	12
50-02	MW-06	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/20/10	12
50-02	MW-06	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/20/10	12
50-02	MW-06	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/20/10	12
50-02	MW-06	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/20/10	12
50-02	MW-06	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/20/10	12
50-02	MW-06	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/20/10	12
50-02	MW-06	95-47-6	408	o-Xylene	3.4	µg/L		EPA 8260	1.0	0.23	NE	1	04/13/10		04/20/10	12
50-02	MW-06	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/20/10	12
50-02	MW-06	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/20/10	12
50-02	MW-06	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/20/10	12
50-02	MW-06	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/20/10	12
50-02	MW-06	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/20/10	12
50-02	MW-06	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/20/10	12
50-02	MW-06	79-01-6	201	Trichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.47	1	1	04/13/10		04/20/10	12
50-02	MW-06	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/20/10	12
50-02	MW-06	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/20/10	12
50-02	MW-06	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/20/10	12
50-02	MW-06	1330-20-7	346	Xylene (Total)	3.4	µg/L	J	EPA 8260	2.0	0.66	5	1	04/13/10		04/20/10	12
50-02	MW-06	SW356	356	Dissolved Oxygen	1.82	mg/L							04/13/10			
50-02	MW-06	SW336	336	Oxidation Reduction Potential	-61.8	mV							04/13/10			
50-02	MW-06	SW320	320	pH	6.03	standard							04/13/10			
50-02	MW-06	SW323	323	Specific Conductivity	110	µS							04/13/10			
50-02	MW-06	SW325	325	Temperature	15.14	°C							04/13/10			
50-02	MW-06	SW330	330	Turbidity	25.70	NTU							04/13/10			
50-02	MW-06	SW318	318	Depth to Water	78.77	ft TOC							04/13/10			
50-02	MW-06	SW411	411	Total Well Depth	94	ft bgs										
50-02	MW-06	SW328	328	Top of Casing	2,139.57	ft msl										
50-02	SW-01	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-39-3	15	Barium	16.8	µg/L	J	EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40

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Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	SW-01	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-47-3	51	Chromium	0.73	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-48-4	53	Cobalt	BQL	µg/L	U	EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-50-8	54	Copper	0.33	µg/L	J	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/15/10	04/16/10	40
50-02	SW-01	7440-02-0	152	Nickel	BQL	µg/L	U	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-28-0	194	Thallium	BQL	µg/L	U	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	SW-01	7440-62-2	209	Vanadium	0.63	µg/L	J	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	7440-66-6	213	Zinc	3.4	µg/L	J	EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-01	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/16/10	12
50-02	SW-01	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/16/10	12
50-02	SW-01	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/16/10	12
50-02	SW-01	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/16/10	12
50-02	SW-01	75-34-3	75	1,1-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.32	5	1	04/13/10		04/16/10	12
50-02	SW-01	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/16/10	12
50-02	SW-01	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/16/10	12
50-02	SW-01	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/16/10	12
50-02	SW-01	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	SW-01	95-50-1	69	1,2-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/16/10	12
50-02	SW-01	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/16/10	12
50-02	SW-01	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	SW-01	106-46-7	71	1,4-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.33	1	1	04/13/10		04/16/10	12
50-02	SW-01	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/16/10	12
50-02	SW-01	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/16/10	12
50-02	SW-01	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/16/10	12
50-02	SW-01	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/16/10	12
50-02	SW-01	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/16/10	12
50-02	SW-01	71-43-2	16	Benzene	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	SW-01	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/16/10	12
50-02	SW-01	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/16/10	12
50-02	SW-01	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/16/10	12
50-02	SW-01	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/16/10	12
50-02	SW-01	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/16/10	12
50-02	SW-01	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	SW-01	108-90-7	39	Chlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.23	3	1	04/13/10		04/16/10	12
50-02	SW-01	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/16/10	12
50-02	SW-01	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/16/10	12
50-02	SW-01	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/16/10	12
50-02	SW-01	156-59-2	78	cis-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.19	5	1	04/13/10		04/16/10	12
50-02	SW-01	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/16/10	12
50-02	SW-01	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/16/10	12
50-02	SW-01	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/16/10	12
50-02	SW-01	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/16/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	SW-01	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/16/10	12
50-02	SW-01	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/16/10	12
50-02	SW-01	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/16/10	12
50-02	SW-01	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/16/10	12
50-02	SW-01	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-01	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/16/10	12
50-02	SW-01	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-01	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/16/10	12
50-02	SW-01	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-01	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/16/10	12
50-02	SW-01	79-01-6	201	Trichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.47	1	1	04/13/10		04/16/10	12
50-02	SW-01	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/16/10	12
50-02	SW-01	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/16/10	12
50-02	SW-01	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/16/10	12
50-02	SW-01	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/16/10	12
50-02	SW-01	SW356	356	Dissolved Oxygen	18.37	mg/L							04/13/10			
50-02	SW-01	SW336	336	Oxidation Reduction Potential	108.5	mV							04/13/10			
50-02	SW-01	SW320	320	pH	6.32	standard							04/13/10			
50-02	SW-01	SW323	323	Specific Conductivity	17	µS							04/13/10			
50-02	SW-01	SW325	325	Temperature	16.01	°C							04/13/10			
50-02	SW-01	SW330	330	Turbidity	17.51	NTU							04/13/10			
50-02	SW-02	7440-36-0	13	Antimony	BQL	µg/L	U	EPA 6010	5.0	2.6	6	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-38-2	14	Arsenic	BQL	µg/L	U	EPA 6010	5.0	2.7	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-39-3	15	Barium	16.6	µg/L	J	EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-41-7	23	Beryllium	BQL	µg/L	U	EPA 6010	1.0	0.10	1	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-43-9	34	Cadmium	BQL	µg/L	U	EPA 6010	1.0	0.50	1	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-47-3	51	Chromium	4.8	µg/L	J	EPA 6010	5.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-48-4	53	Cobalt	BQL	µg/L	U	EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-50-8	54	Copper	0.50	µg/L	J	EPA 6010	5.0	0.30	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7439-92-1	131	Lead	BQL	µg/L	U	EPA 6010	5.0	4.0	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7439-97-6	132	Mercury	BQL	µg/L	U	EPA 7470	0.20	0.070	0.2	1	04/13/10	04/16/10	04/16/10	40
50-02	SW-02	7440-02-0	152	Nickel	1.7	µg/L	J	EPA 6010	5.0	1.7	50	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7782-49-2	183	Selenium	BQL	µg/L	U	EPA 6010	10.0	3.8	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-22-4	184	Silver	BQL	µg/L	U	EPA 6010	5.0	0.10	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-28-0	194	Thallium	BQL	µg/L	U	EPA 6020	0.10	0.050	5.5	1	04/13/10	04/21/10	04/22/10	Minneapolis Lab
50-02	SW-02	7440-62-2	209	Vanadium	0.87	µg/L	J	EPA 6010	5.0	0.20	25	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	7440-66-6	213	Zinc	2.4	µg/L	J	EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	SW-02	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/16/10	12
50-02	SW-02	71-55-6	200	1,1,1-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/16/10	12
50-02	SW-02	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	µg/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/16/10	12
50-02	SW-02	79-00-5	202	1,1,2-Trichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/16/10	12
50-02	SW-02	75-34-3	75	1,1-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.32	5	1	04/13/10		04/16/10	12
50-02	SW-02	75-35-4	77	1,1-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/16/10	12
50-02	SW-02	96-18-4	206	1,2,3-Trichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/16/10	12
50-02	SW-02	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	µg/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/16/10	12

Table 2
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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	SW-02	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	SW-02	95-50-1	69	1,2-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/16/10	12
50-02	SW-02	107-06-2	76	1,2-Dichloroethane	BQL	µg/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/16/10	12
50-02	SW-02	78-87-5	82	1,2-Dichloropropane	BQL	µg/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	SW-02	106-46-7	71	1,4-Dichlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.33	1	1	04/13/10		04/16/10	12
50-02	SW-02	78-93-3	141	2-Butanone (MEK)	BQL	µg/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/16/10	12
50-02	SW-02	591-78-6	124	2-Hexanone	BQL	µg/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/16/10	12
50-02	SW-02	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	µg/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/16/10	12
50-02	SW-02	67-64-1	3	Acetone	BQL	µg/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/16/10	12
50-02	SW-02	107-13-1	8	Acrylonitrile	BQL	µg/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/16/10	12
50-02	SW-02	71-43-2	16	Benzene	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	SW-02	74-97-5	28	Bromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/16/10	12
50-02	SW-02	75-27-4	29	Bromodichloromethane	BQL	µg/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/16/10	12
50-02	SW-02	75-25-2	30	Bromoform	BQL	µg/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/16/10	12
50-02	SW-02	74-83-9	136	Bromomethane	BQL	µg/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/16/10	12
50-02	SW-02	75-15-0	35	Carbon disulfide	BQL	µg/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/16/10	12
50-02	SW-02	56-23-5	36	Carbon tetrachloride	BQL	µg/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	SW-02	108-90-7	39	Chlorobenzene	BQL	µg/L	U	EPA 8260	1.0	0.23	3	1	04/13/10		04/16/10	12
50-02	SW-02	75-00-3	41	Chloroethane	BQL	µg/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/16/10	12
50-02	SW-02	67-66-3	44	Chloroform	BQL	µg/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/16/10	12
50-02	SW-02	74-87-3	137	Chloromethane	BQL	µg/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/16/10	12
50-02	SW-02	156-59-2	78	cis-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.19	5	1	04/13/10		04/16/10	12
50-02	SW-02	10061-01-5	86	cis-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/16/10	12
50-02	SW-02	124-48-1	66	Dibromochloromethane	BQL	µg/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/16/10	12
50-02	SW-02	74-95-3	139	Dibromomethane	BQL	µg/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/16/10	12
50-02	SW-02	100-41-4	110	Ethylbenzene	BQL	µg/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/16/10	12
50-02	SW-02	74-88-4	142	Iodomethane	BQL	µg/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/16/10	12
50-02	SW-02	1330-20-7	359	m&p-Xylene	BQL	µg/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/16/10	12
50-02	SW-02	75-09-2	140	Methylene Chloride	BQL	µg/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/16/10	12
50-02	SW-02	95-47-6	408	o-Xylene	BQL	µg/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/16/10	12
50-02	SW-02	100-42-5	186	Styrene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-02	127-18-4	192	Tetrachloroethene	BQL	µg/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/16/10	12
50-02	SW-02	108-88-3	196	Toluene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-02	156-60-5	79	trans-1,2-Dichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/16/10	12
50-02	SW-02	10061-02-6	87	trans-1,3-Dichloropropene	BQL	µg/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	SW-02	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	µg/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/16/10	12
50-02	SW-02	79-01-6	201	Trichloroethene	BQL	µg/L	U	EPA 8260	1.0	0.47	1	1	04/13/10		04/16/10	12
50-02	SW-02	75-69-4	203	Trichlorofluoromethane	BQL	µg/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/16/10	12
50-02	SW-02	108-05-4	210	Vinyl acetate	BQL	µg/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/16/10	12
50-02	SW-02	75-01-4	211	Vinyl chloride	BQL	µg/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/16/10	12
50-02	SW-02	1330-20-7	346	Xylene (Total)	BQL	µg/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/16/10	12
50-02	SW-02	SW356	356	Dissolved Oxygen	17.20	mg/L							04/13/10			
50-02	SW-02	SW336	336	Oxidation Reduction Potential	91.0	mV							04/13/10			
50-02	SW-02	SW320	320	pH	6.74	standard							04/13/10			
50-02	SW-02	SW323	323	Specific Conductivity	16	µS							04/13/10			

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Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	SW-02	SW325	325	Temperature	15.38	°C							04/13/10			
50-02	SW-02	SW330	330	Turbidity	31.58	NTU							04/13/10			
50-02	Trip Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	1.0	0.33	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	1.0	0.48	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	1.0	0.40	3	1	04/13/10		04/16/10	12
50-02	Trip Blank	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	1.0	0.29	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-34-3	75	1,1-Dichloroethane	BQL	ug/L	U	EPA 8260	1.0	0.32	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	1.0	0.56	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	1.0	0.41	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	3.0	2.5	13	1	04/13/10		04/16/10	12
50-02	Trip Blank	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	1.0	0.30	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	1.0	0.12	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	1.0	0.27	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 8260	1.0	0.33	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	5.0	0.96	100	1	04/13/10		04/16/10	12
50-02	Trip Blank	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	5.0	0.46	50	1	04/13/10		04/16/10	12
50-02	Trip Blank	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	5.0	0.33	100	1	04/13/10		04/16/10	12
50-02	Trip Blank	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	25.0	2.2	100	1	04/13/10		04/16/10	12
50-02	Trip Blank	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	10.0	1.9	200	1	04/13/10		04/16/10	12
50-02	Trip Blank	71-43-2	16	Benzene	BQL	ug/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	1.0	0.17	3	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	1.0	0.18	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	1.0	0.26	3	1	04/13/10		04/16/10	12
50-02	Trip Blank	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	5.0	0.29	10	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	2.0	1.2	100	1	04/13/10		04/16/10	12
50-02	Trip Blank	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	1.0	0.25	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 8260	1.0	0.23	3	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	1.0	0.54	10	1	04/13/10		04/16/10	12
50-02	Trip Blank	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	1.0	0.14	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	1.0	0.11	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	1.0	0.19	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	1.0	0.13	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	1.0	0.21	3	1	04/13/10		04/16/10	12
50-02	Trip Blank	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	1.0	0.21	10	1	04/13/10		04/16/10	12
50-02	Trip Blank	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	1.0	0.30	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	5.0	0.32	10	1	04/13/10		04/16/10	12
50-02	Trip Blank	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	2.0	0.66	NE	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	2.0	0.97	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	1.0	0.23	NE	1	04/13/10		04/16/10	12
50-02	Trip Blank	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	1.0	0.46	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	1.0	0.49	5	1	04/13/10		04/16/10	12
50-02	Trip Blank	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	1.0	0.26	1	1	04/13/10		04/16/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	Trip Blank	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	1.0	100	1	04/13/10		04/16/10	12
50-02	Trip Blank	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	1.0	0.47	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	1.0	0.20	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	2.0	0.35	50	1	04/13/10		04/16/10	12
50-02	Trip Blank	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	1.0	0.62	1	1	04/13/10		04/16/10	12
50-02	Trip Blank	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	2.0	0.66	5	1	04/13/10		04/16/10	12

Table 2
Analytical Data and Field Parameters
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number

Notes:

1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L). "BQL" indicates that the analytical result was Below Quantitation Limits.
3. "Practical Quantitaion Limit" (PQL) is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
4. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's Practical Quantitation Limit (PQL) and the Solid Waste Section Limit (SWSL). An italicized *J*-flag is a data qualifier that reflects a detected concentration that is greater than the PQL and MDL but less than the SWSL.
7. "SWSL" is the Solid Waste Section Limit. This limit, established by DENR, is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. "Dilution Factor" is reported as single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collection Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
11. Bold numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
12. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on February 5, 2010).
15. "NE" means Not Established. "NMT" means No Measurement Taken. Blank cells indicate that there is no information relevant to the respective row.

Table 3
Solid Waste Section Limit Exceedance Notification
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	Collect Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
50-02	MW-01	7440-39-3	15	Barium	107	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-48-4	53	Cobalt	**312**	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	7440-66-6	213	Zinc	11.4	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-01	75-34-3	75	1,1-Dichloroethane	**6.6**	µg/L		EPA 8260	1.0	0.32	5	1	04/13/10		04/15/10	12
50-02	MW-01	106-46-7	71	1,4-Dichlorobenzene	**11.0**	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-01	71-43-2	16	Benzene	**5.2**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-01	108-90-7	39	Chlorobenzene	3.9	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-01	156-59-2	78	cis-1,2-Dichloroethene	10.8	µg/L		EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-01	79-01-6	201	Trichloroethene	1.3	µg/L		EPA 8260	1.0	0.47	1	1	04/13/10		04/15/10	12
50-02	MW-02	7440-48-4	53	Cobalt	12.1	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-02	7440-66-6	213	Zinc	64.4	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-39-3	15	Barium	144	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-48-4	53	Cobalt	32.2	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	7440-66-6	213	Zinc	27.2	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-03	106-46-7	71	1,4-Dichlorobenzene	3.5	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-03	71-43-2	16	Benzene	**1.3**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-03	108-90-7	39	Chlorobenzene	9.8	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-04	7440-39-3	15	Barium	138	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	7440-66-6	213	Zinc	18.7	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-04	106-46-7	71	1,4-Dichlorobenzene	2.9	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-05	7440-39-3	15	Barium	199	µg/L		EPA 6010	5.0	0.20	100	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	7440-48-4	53	Cobalt	22.1	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-05	106-46-7	71	1,4-Dichlorobenzene	**12.1**	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/15/10	12
50-02	MW-05	71-43-2	16	Benzene	**2.0**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/15/10	12
50-02	MW-05	108-90-7	39	Chlorobenzene	9.2	µg/L		EPA 8260	1.0	0.23	3	1	04/13/10		04/15/10	12
50-02	MW-05	156-59-2	78	cis-1,2-Dichloroethene	17.8	µg/L		EPA 8260	1.0	0.19	5	1	04/13/10		04/15/10	12
50-02	MW-05	75-01-4	211	Vinyl chloride	**1.5**	µg/L		EPA 8260	1.0	0.62	1	1	04/13/10		04/15/10	12
50-02	MW-06	7440-48-4	53	Cobalt	**122**	µg/L		EPA 6010	5.0	0.60	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	7440-66-6	213	Zinc	14.1	µg/L		EPA 6010	10.0	0.40	10	1	04/13/10	04/22/10	04/23/10	40
50-02	MW-06	106-46-7	71	1,4-Dichlorobenzene	3.9	µg/L		EPA 8260	1.0	0.33	1	1	04/13/10		04/20/10	12
50-02	MW-06	71-43-2	16	Benzene	**1.7**	µg/L		EPA 8260	1.0	0.25	1	1	04/13/10		04/20/10	12

Notes:
1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L). "BQL" indicates that the analytical result was Below Quantitation Limits.
3. "Practical Quantitaion Limit" (PQL) is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions."
4. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's Practical Quantitation Limit (PQL) and the Solid Waste Section Limit (SWSL). An italicized *J*-flag is a data qualifier that reflects a detected concentration that is greater than the PQL and MDL but less than the SWSL.
7. "SWSL" is the Solid Waste Section Limit. This limit, established by DENR, is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. "Dilution Factor" is reported as single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collection Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
11. Bold numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
12. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on February 5, 2010).
15. "NE" means Not Established. "NMT" means No Measurement Taken. Blank cells indicate that there is no information relevant to the respective row.

Table 4
Water Quality Standards Exceedance Notification
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Sample ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	PQL	MDL	SWSL	Dilution Factor	2L Standard	GWPS	Collect Date	Analysis Date	Cause and Significance
50-02	MW-01	7440-48-4	53	Cobalt	**312**	µg/L		EPA 6010	5.0	0.60	10	1	NE	70	4/13/2010	4/23/2010	Possibly naturally occurring, potential impact to Tuckasegee River
50-02	MW-01	7440-28-0	194	Thallium	**0.50**	µg/L	*J*	EPA 6020	0.10	0.050	5.5	1	NE	0.28	4/13/2010	4/22/2010	Possibly naturally occurring, potential impact to Tuckasegee River
50-02	MW-01	75-34-3	75	1,1-Dichloroethane	**6.6**	µg/L		EPA 8260	1.0	0.32	5	1	6	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-01	106-46-7	71	1,4-Dichlorobenzene	**11.0**	µg/L		EPA 8260	1.0	0.33	1	1	6	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-01	71-43-2	16	Benzene	**5.2**	µg/L		EPA 8260	1.0	0.25	1	1	1	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-03	71-43-2	16	Benzene	**1.3**	µg/L		EPA 8260	1.0	0.25	1	1	1	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-05	106-46-7	71	1,4-Dichlorobenzene	**12.1**	µg/L		EPA 8260	1.0	0.33	1	1	6	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-05	71-43-2	16	Benzene	**2.0**	µg/L		EPA 8260	1.0	0.25	1	1	1	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River
50-02	MW-05	75-01-4	211	Vinyl chloride	**1.5**	µg/L		EPA 8260	1.0	0.62	1	1	0.03	NE	4/13/2010	4/15/2010	Anthropogenic, potential impact to Tuckasegee River

Notes:
1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L). "BQL" indicates that the analytical result was Below Quantitation Limits.
3. "Practical Quantitaion Limit" (PQL) is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
4. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's Practical Quantitation Limit (PQL) and the Solid Waste Section Limit (SWSL). An italicized *J*-flag is a data qualifier that reflects a detected concentration that is greater than the PQL and MDL but less than the SWSL.
7. "SWSL" is the Solid Waste Section Limit. This limit, established by DENR, is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. "Dilution Factor" is reported as single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collection Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
11. Bold numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
12. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on February 5, 2010).
15. "NE" means Not Established. "NMT" means No Measurement Taken. Blank cells indicate that there is no information relevant to the respective row.

Table 5
Well Construction Details and Corresponding Elevations
Jackson County Municipal Sold Waste Landfill, Jackson County, North Carolina

Facility Permit	Well ID	Date Drilled	Ground Surface Elevation [1]	TOC[2] Elevation	Stick Up	Total Well Depth	Depth To Water[7]	Groundwater Elevation	Approx. Depth to Bedrock [4,6]	Approx. Top of Bedrock Elevation	Depth to Top of Screened Interval [4,5]	Depth to Bottom of Screened Interval [4,5]	Top Elevation of Screened Interval	Elevation of Bottom of Screened Interval	Geology of Screened Interval	Source of Well Construction Information
		(mm/dd/yyyy)	(feet above mean sea level)	(feet above mean sea level)	(feet above ground surface)	(feet bgs)	(feet below TOC)	(feet above mean sea level)	(feet bgs)	(feet above mean sea level)	(feet bgs)	(feet bgs)	(feet above mean sea level)	(feet above mean sea level)		
50-02	MW-01	04/23/1992	2169.4	2171.42	2.0	110.5	98.10	2073.32	83.0	2086.4	95.0	110.0	2059.4	2074.4	bedrock	S&ME, Inc.
50-02	MW-02	04/22/1992	2013.2	2015.38	2.3	63.0	23.97	1991.41	13.0	2000.2	45.0	60.0	1953.2	1968.2	bedrock	S&ME, Inc.
50-02	MW-03	04/21/1992	2044.2	2045.53	1.3	65.5	48.20	1997.33	57.0	1987.2	48.5	63.5	1980.7	1995.7	partially weathered bedrock	S&ME, Inc.
50-02	MW-04	04/21/1992	1978.7	1980.77	2.0	43.0	26.82	1953.95	NA[3]	NA	25.0	40.0	1938.7	1953.7	saprolite	S&ME, Inc.
50-02	MW-05	09/23/1994	2027.4	2028.97	2.3	60.0	45.58	1983.39	NA	NA	50.0	60.0	1967.4	1977.4	saprolite	AAA Green Bros Well Drilling
50-02	MW-06	03/23/2004	2136.6	2139.57	3.0	94.0	78.77	2060.80	47.6	2089.0	84.6	94.6	2042.0	2052.0	bedrock	Altamont Environmental, Inc.

Notes:

1. Elevations are measured relative to mean sea level and are based on a survey completed on April 9, 1999 by Davenport & Assoc., Inc.
2. TOC means Top of Casing. bgs means below ground surface.
3. NA means Not Applicable.
4. MW-01 through MW-04 Depth to Bedrock and Screened Interval taken from boring logs completed on April 21, 22, and 23, 1992 by S&ME.
5. MW-05 Screened Interval taken from boring log completed on September 23, 1994 by AAA Greene Bros. of Sylva.
6. MW-06 Depth to Bedrock and Screened Interval and elevation data taken from Altamont boring log completed March 23, 2004.
7. Depth to water measured on April 13, 2010.

Table 6
Summary of Student's *t*-Test Analysis of Detected Constituents
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

Detected Constituent	Groundwater Quality Standard [1]		1993 to April 2010 Average Concentration Significantly Greater than the Groundwater Quality Standard
	2L Standard[2] (µg/L)	GWPS[3] (µg/L)	
Metals			
Arsenic	10	NE[5]	none
Barium	700	NE[5]	none
Cadmium	2	NE[5]	none
Chromium	10	NE[5]	none
Cobalt	NE[5]	70	none
Copper	1,000	NE[5]	none
Mercury	1	NE[5]	none
Nickel	100	NE[5]	none
Selenium	20	NE[5]	none
Thallium	NE[5]	0.28	N/V[6]
Vanadium	NE[5]	3.5	none[7]
Zinc	1,000	NE[5]	none
VOCs			
1,1-Dichloroethane	6	NE[5]	**MW-01**
1,2-Dichlorobenzene	20	NE[5]	N/V[6]
1,4-Dichlorobenzene	6	NE[5]	**MW-05[8]**
Benzene	1	NE[5]	**MW-01, MW-05, and MW-06[9]**
Chlorobenzene	50	NE[6]	none
Chloroethane	3,000	NE[6]	none[10]
cis-1,2-Dichloroethene	70	NE[5]	none
Tetrachloroethene	0.7	NE[5]	N/V[6]
Toluene	600	NE[5]	none[11]
Trichloroethene	3	NE[5]	N/V[6]
Vinyl chloride	0.03	NE[6]	N/V[6]
Xylene (total)	500	NE[5]	N/V[6]

Notes:
1. Groundwater quality standards include 2L Standards and Groundwater Protection Standards (GWPS). Groundwater quality standards are in units of micrograms per liter (µg/L).
2. 2L Standard from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," NC DENR, last amended on January 1, 2010.
3. A Groundwater Protection Standard (GWPS) is used for comparison in the event a constituent has no established 2L Standard. GWPS is pursuant to "15A NCAC 13B .1634," NC DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp, last amended on February 5, 2010.
4. Monitoring wells are listed once average concentrations are statistically greater than the relevant groundwater quality standard. "None" indicates that the average concentration of the given constituent was not statistically greater than the groundwater quality standard in any of the monitoring wells.
5. NE indicates "Not Established".
6. N/V means the statistical analysis was not valid for any of the monitoring well data because the groundwater quality standard is less than the values used for non-detects, and/or datasets contain a majority of non-detects.
7. *t*-test for vanadium is not valid for MW-01, MW-02, MW-03, MW-04, and MW-06 since the sample sets contain a majority of non-detect values and most of the values used for non-detects (i.e., the Method Reporting Limit) are greater than the groundwater quality standard.
8. *t*-test for 1,4-dichlorobenzene is not valid for MW-02 since the sample sets contain a majority of non-detect values.
9. *t*-test for benzene is not valid for MW-02, MW-03 and MW-04 since the sample sets contain mostly non-detect values and the value used for non-detects (i.e., the Method Reporting Limit) are greater than the groundwater quality standard. Benzene has never been detected in samples collected from MW-02.
10. *t*-test for chloroethane is not valid for MW-01, MW-02, MW-03, MW-04, and MW-05 since the sample sets contain mostly non-detect values.
11. *t*-test for toluene is not valid for MW-02, MW-03, MW-04, and MW-05 since the sample sets contain mostly non-detect values.

APPENDICES

APPENDIX A
Well Sampling Logs and Equipment Calibration Data Sheet(s)

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
231 HAYWOOD STREET, ASHEVILLE, NC 28801
TEL.828.281.3350 FAC.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF
PROJECT NUMBER: 2040.12
LOCATION: Dillsboro, NC
DATE: 4/13/2010
SAMPLING PERSONNEL: E. Yurkovich / P. Brooks
WEATHER: clear, Sunny 65°

Well ID: MW-01
Screen Interval: 95 to 110 bgs
Depth to Water: 98.10 toc
Stickup: 2.0
Depth of Pump Intake: 106 toc
Drawdown Set: 98.10 toc

Arrive at Well: 959
Start Time: 1012
Sample Time: 1046
Finish Sample Time: 1049
Leave Well: 1103

COMMENTS: Well recharges quickly

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1019	98.10	16.95	115	17.28	5.62	55.1	8.09
1022	98.10	16.53	114	7.98	5.64	42.6	14.18
1025	98.10	16.18	111	5.15	5.67	39.2	21.00
1028	98.10	16.54	109	3.99	5.68	35.6	8.70
1031	98.10	16.18	109	3.76	5.68	34.9	15.87
1034	98.10	16.22	107	3.16	5.67	37.7	19.82
1037	98.10	16.20	105	2.70	5.69	33.7	8.45
1040	98.10	16.17	107	2.50	5.67	32.3	0.01
1043	98.10	16.12	108	2.28	5.66	32.1	0.41
1046	98.10	16.15	109	2.26	5.66	30.6	7.32

Time between recharge during sample collection: 2 secs @ 30PM

Sampling Personnel Signature: [signature]
Date: 4/13/2010

NOTES:

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen per cubic centimeter
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF
PROJECT NUMBER: 2040.12
LOCATION: Dillsboro, NC
DATE: 4/13/2010
SAMPLING PERSONNEL: E. Yurkanin / P. Brooks
WEATHER: Clear, Sunny 75°

Well ID: MW-02
Screen Interval: 45 to 60 bgs
Depth to Water: 23.97 toc
Stickup: 2.3
Depth of Pump Intake: 53 toc
Drawdown Set: 26.97 toc

Arrive at Well: 1356
Start Time: 1405
Sample Time: 1429
Finish Sample Time: 1433
Leave Well: 1449

COMMENTS: Had to drawdown water level 3 feet before it would recharge @ 45 secs

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1408	24.30	16.77	81	17.86	6.09	143.6	14.45
1411	25.97	15.28	88	15.68	5.84	169.3	14.69
1414	25.97	15.95	88	13.18	5.77	176.0	11.55
1417	26.97	15.25	88	12.13	5.74	181.4	11.23
1420	26.97	16.16	87	11.50	5.76	180.3	7.29
1423	26.97	16.14	87	11.68	5.77	181.7	10.75
1426	26.97	16.18	84	11.80	5.77	182.4	12.32
1429	26.97	16.20	83	11.91	5.78	181.8	18.90

Time between recharge during sample collection: 45 secs @ 3GPM

Sampling Personnel Signature: [signature]
Date: 4/13/10

NOTES:

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen per cubic centimeter
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mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF
PROJECT NUMBER: 2040.12
LOCATION: Dillsboro, NC
DATE: 4/13/10
SAMPLING PERSONNEL: E. Yurkovich / P. Brooks
WEATHER: Clear, Sunny 75°

Well ID: MW-03
Screen Interval: 48.5 to 63.5 bgs
Depth to Water: 48.20 toc
Stickup: 1.3
Depth of Pump Intake: 56.5 toc
Drawdown Set: 48.40 toc

Arrive at Well: 1256
Start Time: 1309
Sample Time: 1333
Finish Sample Time: 1336
Leave Well: 1350

COMMENTS: Well recharges quickly

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1312	48.30	18.49	145	19.66	6.13	163.5	262.5
1315	48.30	17.10	147	6.67	5.60	190.9	16.86
1318	48.40	16.54	146	5.15	5.50	196.8	15.47
1321	48.40	16.44	147	4.39	5.43	198.4	11.29
1324	48.40	16.50	147	4.06	5.40	197.8	13.08
1327	48.40	16.31	148	3.69	5.39	196.6	20.24
1330	48.40	16.21	150	3.61	5.36	196.2	16.42
1333	48.40	16.16	150	3.64	5.35	195.8	10.18

Time between recharge during sample collection: 2 secs @ 30PM

Sampling Personnel Signature: [signature]
Date: 4/13/10

NOTES:

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen per cubic centimeter
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF
PROJECT NUMBER: 2040.12
LOCATION: Dillsboro, NC
DATE: 4/13/10
SAMPLING PERSONNEL: E. Yukkonen / P. Brooks
WEATHER: clear, sunny 75°

Well ID: MW-04
Screen Interval: 27 to 43 bgs
Depth to Water: 26.82 toc
Stickup: 2.0
Depth of Pump Intake: 35.0 toc
Drawdown Set: 27.12 toc

Arrive at Well: 1509
Start Time: 1521
Sample Time: 1550
Finish Sample Time: 1555
Leave Well: 1605

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1525	27.12	17.59	247	15.59	5.58	176.7	24.97
1528	27.12	15.81	249	11.03	5.58	183.4	52.37
1531	27.12	15.51	245	6.22	5.59	186.3	32.91
1534	27.12	15.51	249	4.71	5.62	184.0	24.52
1537	27.12	15.51	246	3.89	5.64	183.2	25.21
1540	27.12	15.25	251	3.12	5.66	182.1	9.47
1543	27.12	15.51	252	2.75	5.65	182.8	8.08
1546	27.12	15.47	252	2.51	5.66	183.0	~~5~~ 12.50
1549	27.12	15.69	252	2.13	5.64	183.4	20.97
1552	27.12	15.49	253	2.02	5.65	183.6	10.09

Time between recharge during sample collection: 8 days @ 3GPM

Sampling Personnel Signature: [signature]
Date: 4/15/10

NOTES:

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures*, April 1996

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen per cubic centimeter
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

PROJECT NAME: Jackson Co. LF
PROJECT NUMBER: 3040.10
SAMPLING PERSONNEL: E. Yurkovich / P. Brooks

DATE: 4/13/2010
WEATHER: clear, Sunny 70°
12:45 - sample time

WELL NUMBER: MW-05
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: well casing bent, use 3 small disposable bailers to purge/collect sample

WELL DEPTH IN FEET (WD): 60.0
WATER LEVEL IN FEET (WL): 46.58
LENGTH OF WATER COLUMN: 14.42 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.45 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 7.35 GALLONS
ACTUAL VOLUME PURGED: 7.5 GALLONS

WELL CASING VOLUMES (WCV)
1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-DISP BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	11:33	initial	18.14	316	8.71	5.77	69.1	40.93	
2	12:01	2.5	17.44	435	10.69	6.13	-23.7	25.05	
3	12:28	5.0	17.32	454	10.87	6.45	-42.0	21.71	
4	12:45	7.5	17.12	468	10.96	6.76	-58.7	30.59	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	Metals Appendix I
125 mL PLASTIC		
40 mL GLASS	3	VOCs 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: Bent PAD: OK LOCK: ok VEGETATION: thick ACCESS: ok

Sampling Personnel Signature: [signature] Date: 4/13/10

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co LF
PROJECT NUMBER: 2040.12
LOCATION: Dillsboro, NC
DATE: 4/13/2010
SAMPLING PERSONNEL: E. Yurkevich / P. Brooks
WEATHER: clear, sunny 68°

Well ID: MW-06
Screen Interval: 84.6 to 94.6 bgs
Depth to Water: 78.77 toc
Stickup: 3.0
Depth of Pump Intake: 91.0 toc
Drawdown Set: 79.27 toc

Arrive at Well: 845
Start Time: 859
Sample Time: 937
Finish Sample Time: 940
Leave Well: 955

COMMENTS: Well recharged quicker than last event, more water in the well

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
907	79.30	14.86	111	15.30	5.47	20.2	19.73
910	79.30	15.05	117	12.38	5.49	4.8	17.22
913	79.27	15.12	121	8.22	5.59	-7.6	9.52
916	79.27	14.89	121	5.84	5.70	-23.9	9.30
919	79.27	15.09	119	4.18	5.82	-39.8	10.36
922	79.27	15.05	117	3.35	5.88	-47.4	21.27
925	79.27	15.15	116	2.92	5.91	-51.1	8.76
928	79.27	15.07	115	2.54	5.94	-56.1	17.94
931	79.27	15.06	115	2.29	5.98	-58.6	13.07
~~934~~ 934	79.27	15.16	112	2.01	6.00	-60.4	19.91
937	79.27	15.14	110	1.82	6.03	-61.8	25.70

Time between recharge during sample collection: 45 secs

Sampling Personnel Signature: [signature]
Date: 4/13/10

NOTES:

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen per cubic centimeter
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

PROJECT NAME: Jackson Co. LF
DATE: 4/13/10
PROJECT NUMBER: 2040.12
WEATHER: Clear, Sunny 75°
SAMPLING PERSONNEL: E. Yurkanin / P. Brooks
1600

SAMPLE NAME: SW-01

COMMENTS: Upstream Surface water sample

SAMPLE METHOD: GRAB SYRINGE PUMP BAILER-DISP. OTHER:

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1600	16.01	17	18.37	6.32	108.5	17.51	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	Appendix I Metals
125 mL PLASTIC		
40 mL GLASS	3	Appendix I VOCs 8260
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: Date: 4/13/10

Notes: °C = degrees Celsius
µS = micro-Siemen per cubic centimeter
mg/L = milligrams per liter
S.U. = standard units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Surface Water Sampling Log

PROJECT NAME: Jackson Co. LF
DATE: 4/13/2010
PROJECT NUMBER: 2040.12
WEATHER: Clear, Sunny 75°
SAMPLING PERSONNEL: E. Yurkovich / P. Brooks

SAMPLE NAME: SW-02

COMMENTS: Downstream surface water sample.

SAMPLE METHOD: (GRAB) SYRINGE PUMP BAILER-DISP. OTHER:

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1458	15.38	16	17.20	6.74	91.0	31.58	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	Appendix I Metals
125 mL PLASTIC		
40 mL GLASS	3	Appendix I VOCs 8260
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 4/13/10

Notes: °C = degrees Celsius
µS = micro-Siemen per cubic centimeter
mg/L = milligrams per liter
S.U. = standard units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Jackson Co. Landfill
Project Number: 2040.12
Project Location: Dillsboro, NC

Calibration Documentation
Person Conducting Calibration: E-Yuckanch
Date of Calibration: 4/13/10
Date of Field Measurements: 4/13/10

Equipment Documentation
Equipment or meters used to take measurements (e.g. water level meters, survey equipment, etc.):

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	4/13/10
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
	200601045	Initial: 3.48	Initial: 12.89	Initial: 539.3
		Cal: 0.00	Cal: 9.98	Cal: 1000
		Time: 733	Time: 734	Time: 735

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 4.17	Cal: 8.49	mmHg: 712.4	Time: 656			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 6.94	Cal: 7.00	Time: 705				Sept 2011
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.19	Cal: 3.99	Time: 709				June 2010
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.45	Cal: 10.03	Time: 716				March 2011
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 728	Meas: 7.00	Mid Day Time:	Check:	PM Time:	Check:	Sept 2011
Spec. Cond. 447/84/23 mS**	Initial: 462	Cal: 447	Time: 658				August 2010
QC* 84 mS	AM Time: 729	Meas: 85	Mid Day Time:	Check:	PM Time:	Check:	July 2010
ORP 200 mV	Initial: 204.6	Cal: 200.0	Time: 721				July 2010

Comments:
Signature: [signature] Date: 4/13/2010

Notes:
1. Electronic equipment calibrated according to the manufacturer's operation manual.
2. Specific Conductivity should be calibrated according to values representative of historic range.
3. Order of Calibration is as follows : Specific Conductivity, pH 7, pH 4, pH 10, ORP, QC checks.
4. QC Acceptable Ranges: pH +/- 0.1 S.U. and Specific Conductivity 10% of the true value. If readings are out of these ranges, meter needs to be recalibrated.
5. * Indicates that a QC check must be performed in the morning, afternoon, and the end of the day, or every four hours.
6. ** Indicates to choose a Specific Conductivity buffer of 447, 84, or 23 mS which is closest to historical readings from the project locatic

APPENDIX B
Laboratory Analytical Reports and Chain-of-Custody Documentation

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

April 28, 2010

Mr. Joel Lenk
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Minnesota Certification IDs

Washington Certification #: C754
Alaska Certification #: UST-078
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

Charlotte Certification IDs

Virginia Certification #: 00213
West Virginia Certification #: 357
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Tennessee Certification #: 04010
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Virginia Certification #: 00072
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9267270001	**MW-01**	Water	04/13/10 10:46	04/14/10 08:24
9267270002	**MW-02**	Water	04/13/10 14:29	04/14/10 08:24
9267270003	**MW-03**	Water	04/13/10 13:33	04/14/10 08:24
9267270004	**MW-04**	Water	04/13/10 15:52	04/14/10 08:24
9267270005	**MW-05**	Water	04/13/10 12:45	04/14/10 08:24
9267270006	**MW-06**	Water	04/13/10 09:37	04/14/10 08:24
9267270007	**SW-01**	Water	04/13/10 16:00	04/14/10 08:24
9267270008	**SW-02**	Water	04/13/10 14:58	04/14/10 08:24
9267270009	**Trip Blank**	Water	04/13/10 00:00	04/14/10 08:24

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SAMPLE ANALYTE COUNT

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9267270001	**MW-01**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270002	**MW-02**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270003	**MW-03**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270004	**MW-04**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270005	**MW-05**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270006	**MW-06**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270007	**SW-01**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270008	**SW-02**	EPA 6010	JMW	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9267270009	**Trip Blank**	EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-01 **Lab ID: 9267270001** Collected: 04/13/10 10:46 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 19:58	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 19:58	7440-38-2	
Barium	**107**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 19:58	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 19:58	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 19:58	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 19:58	7440-47-3	
Cobalt	**312**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 19:58	7440-48-4	
Copper	**1.3J**	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 19:58	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 19:58	7439-92-1	
Nickel	**14.6**	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 19:58	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 19:58	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 19:58	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 19:58	7440-62-2	
Zinc	**11.4**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 19:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.50**	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:01	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/15/10 18:01	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/15/10 18:01	107-13-1	
Benzene	**5.2**	ug/L	1.0	0.25	1		04/15/10 18:01	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/15/10 18:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/15/10 18:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/15/10 18:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/15/10 18:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/15/10 18:01	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/15/10 18:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/15/10 18:01	56-23-5	
Chlorobenzene	**3.9**	ug/L	1.0	0.23	1		04/15/10 18:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/15/10 18:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/15/10 18:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/15/10 18:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/15/10 18:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/15/10 18:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/15/10 18:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/15/10 18:01	74-95-3	
1,2-Dichlorobenzene	**0.32J**	ug/L	1.0	0.30	1		04/15/10 18:01	95-50-1	
1,4-Dichlorobenzene	**11.0**	ug/L	1.0	0.33	1		04/15/10 18:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/15/10 18:01	110-57-6	
1,1-Dichloroethane	**6.6**	ug/L	1.0	0.32	1		04/15/10 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/15/10 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/15/10 18:01	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-01 **Lab ID: 9267270001** Collected: 04/13/10 10:46 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**10.8**	ug/L	1.0	0.19	1		04/15/10 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/15/10 18:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/15/10 18:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/15/10 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/15/10 18:01	10061-02-6	
Ethylbenzene	**0.33J**	ug/L	1.0	0.30	1		04/15/10 18:01	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/15/10 18:01	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/15/10 18:01	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/15/10 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/15/10 18:01	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/15/10 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/15/10 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/15/10 18:01	79-34-5	
Tetrachloroethene	**0.69J**	ug/L	1.0	0.46	1		04/15/10 18:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/15/10 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/15/10 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/15/10 18:01	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.47	1		04/15/10 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/15/10 18:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/15/10 18:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/15/10 18:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/15/10 18:01	75-01-4	
Xylene (Total)	**5.0**	ug/L	2.0	0.66	1		04/15/10 18:01	1330-20-7	
m&p-Xylene	**1.5J**	ug/L	2.0	0.66	1		04/15/10 18:01	1330-20-7	
o-Xylene	**3.5**	ug/L	1.0	0.23	1		04/15/10 18:01	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/15/10 18:01	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/15/10 18:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		04/15/10 18:01	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		04/15/10 18:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-02 **Lab ID: 9267270002** Collected: 04/13/10 14:29 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:06	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:06	7440-38-2	
Barium	**45.3**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:06	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:06	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:06	7440-43-9	
Chromium	**1.2J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:06	7440-47-3	
Cobalt	**12.1**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:06	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:06	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:06	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:06	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:06	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:06	7440-22-4	
Vanadium	**0.28J**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:06	7440-62-2	
Zinc	**64.4**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:06	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.11**	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:03	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/15/10 18:25	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/15/10 18:25	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/15/10 18:25	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/15/10 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/15/10 18:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/15/10 18:25	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/15/10 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/15/10 18:25	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/15/10 18:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/15/10 18:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/15/10 18:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/15/10 18:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/15/10 18:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/15/10 18:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/15/10 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/15/10 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/15/10 18:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/15/10 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/15/10 18:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/15/10 18:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/15/10 18:25	110-57-6	
1,1-Dichloroethane	**0.43J**	ug/L	1.0	0.32	1		04/15/10 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/15/10 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/15/10 18:25	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-02 **Lab ID: 9267270002** Collected: 04/13/10 14:29 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.87J**	ug/L	1.0	0.19	1		04/15/10 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/15/10 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/15/10 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/15/10 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/15/10 18:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/15/10 18:25	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/15/10 18:25	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/15/10 18:25	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/15/10 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/15/10 18:25	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/15/10 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/15/10 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/15/10 18:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/15/10 18:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/15/10 18:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/15/10 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/15/10 18:25	79-00-5	
Trichloroethene	**0.62J**	ug/L	1.0	0.47	1		04/15/10 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/15/10 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/15/10 18:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/15/10 18:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/15/10 18:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/15/10 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/15/10 18:25	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/15/10 18:25	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/15/10 18:25	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		04/15/10 18:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		04/15/10 18:25	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/15/10 18:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-03 **Lab ID: 9267270003** Collected: 04/13/10 13:33 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:13	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:13	7440-38-2	
Barium	**144**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:13	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:13	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:13	7440-43-9	
Chromium	**1.1J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:13	7440-47-3	
Cobalt	**32.2**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:13	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:13	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:13	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:13	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:13	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:13	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:13	7440-62-2	
Zinc	**27.2**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.16**	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:06	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/15/10 18:49	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/15/10 18:49	107-13-1	
Benzene	**1.3**	ug/L	1.0	0.25	1		04/15/10 18:49	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/15/10 18:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/15/10 18:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/15/10 18:49	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/15/10 18:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/15/10 18:49	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/15/10 18:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/15/10 18:49	56-23-5	
Chlorobenzene	**9.8**	ug/L	1.0	0.23	1		04/15/10 18:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/15/10 18:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/15/10 18:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/15/10 18:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/15/10 18:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/15/10 18:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/15/10 18:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/15/10 18:49	74-95-3	
1,2-Dichlorobenzene	**0.30J**	ug/L	1.0	0.30	1		04/15/10 18:49	95-50-1	
1,4-Dichlorobenzene	**3.5**	ug/L	1.0	0.33	1		04/15/10 18:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/15/10 18:49	110-57-6	
1,1-Dichloroethane	**0.47J**	ug/L	1.0	0.32	1		04/15/10 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/15/10 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/15/10 18:49	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-03 **Lab ID: 9267270003** Collected: 04/13/10 13:33 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.19	1		04/15/10 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/15/10 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/15/10 18:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/15/10 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/15/10 18:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/15/10 18:49	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/15/10 18:49	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/15/10 18:49	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/15/10 18:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/15/10 18:49	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/15/10 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/15/10 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/15/10 18:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/15/10 18:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/15/10 18:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/15/10 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/15/10 18:49	79-00-5	
Trichloroethene	**0.52J**	ug/L	1.0	0.47	1		04/15/10 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/15/10 18:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/15/10 18:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/15/10 18:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/15/10 18:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/15/10 18:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/15/10 18:49	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/15/10 18:49	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/15/10 18:49	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/15/10 18:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		04/15/10 18:49	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		04/15/10 18:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-04 **Lab ID: 9267270004** Collected: 04/13/10 15:52 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:17	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:17	7440-38-2	
Barium	**138**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:17	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:17	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:17	7440-43-9	
Chromium	**2.0J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:17	7440-47-3	
Cobalt	**1.0J**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:17	7440-48-4	
Copper	**0.33J**	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:17	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:17	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:17	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:17	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:17	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:17	7440-62-2	
Zinc	**18.7**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:17	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.074J**	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.31**	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:08	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/15/10 19:13	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/15/10 19:13	107-13-1	
Benzene	**0.55J**	ug/L	1.0	0.25	1		04/15/10 19:13	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/15/10 19:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/15/10 19:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/15/10 19:13	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/15/10 19:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/15/10 19:13	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/15/10 19:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/15/10 19:13	56-23-5	
Chlorobenzene	**2.4**	ug/L	1.0	0.23	1		04/15/10 19:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/15/10 19:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/15/10 19:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/15/10 19:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/15/10 19:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/15/10 19:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/15/10 19:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/15/10 19:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/15/10 19:13	95-50-1	
1,4-Dichlorobenzene	**2.9**	ug/L	1.0	0.33	1		04/15/10 19:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/15/10 19:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/15/10 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/15/10 19:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/15/10 19:13	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-04 **Lab ID: 9267270004** Collected: 04/13/10 15:52 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**4.3**	ug/L	1.0	0.19	1		04/15/10 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/15/10 19:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/15/10 19:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/15/10 19:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/15/10 19:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/15/10 19:13	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/15/10 19:13	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/15/10 19:13	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/15/10 19:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/15/10 19:13	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/15/10 19:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/15/10 19:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/15/10 19:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/15/10 19:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/15/10 19:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/15/10 19:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/15/10 19:13	79-00-5	
Trichloroethene	**0.47J**	ug/L	1.0	0.47	1		04/15/10 19:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/15/10 19:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/15/10 19:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/15/10 19:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/15/10 19:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/15/10 19:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/15/10 19:13	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/15/10 19:13	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/15/10 19:13	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/15/10 19:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		04/15/10 19:13	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/15/10 19:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-05 **Lab ID: 9267270005** Collected: 04/13/10 12:45 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:20	7440-36-0	
Arsenic	**3.2J**	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:20	7440-38-2	
Barium	**199**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:20	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:20	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:20	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:20	7440-47-3	
Cobalt	**22.1**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:20	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:20	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:20	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:20	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:20	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:20	7440-22-4	
Vanadium	**0.23J**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:20	7440-62-2	
Zinc	ND	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:11	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/15/10 19:37	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/15/10 19:37	107-13-1	
Benzene	**2.0**	ug/L	1.0	0.25	1		04/15/10 19:37	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/15/10 19:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/15/10 19:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/15/10 19:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/15/10 19:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/15/10 19:37	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/15/10 19:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/15/10 19:37	56-23-5	
Chlorobenzene	**9.2**	ug/L	1.0	0.23	1		04/15/10 19:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/15/10 19:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/15/10 19:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/15/10 19:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/15/10 19:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/15/10 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/15/10 19:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/15/10 19:37	74-95-3	
1,2-Dichlorobenzene	**0.38J**	ug/L	1.0	0.30	1		04/15/10 19:37	95-50-1	
1,4-Dichlorobenzene	**12.1**	ug/L	1.0	0.33	1		04/15/10 19:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/15/10 19:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/15/10 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/15/10 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/15/10 19:37	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-05 **Lab ID: 9267270005** Collected: 04/13/10 12:45 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**17.8**	ug/L	1.0	0.19	1		04/15/10 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/15/10 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/15/10 19:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/15/10 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/15/10 19:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/15/10 19:37	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/15/10 19:37	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/15/10 19:37	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/15/10 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/15/10 19:37	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/15/10 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/15/10 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/15/10 19:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/15/10 19:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/15/10 19:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/15/10 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/15/10 19:37	79-00-5	
Trichloroethene	**0.55J**	ug/L	1.0	0.47	1		04/15/10 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/15/10 19:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/15/10 19:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/15/10 19:37	108-05-4	
Vinyl chloride	**1.5**	ug/L	1.0	0.62	1		04/15/10 19:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/15/10 19:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/15/10 19:37	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/15/10 19:37	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		04/15/10 19:37	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/15/10 19:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		04/15/10 19:37	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		04/15/10 19:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-06 **Lab ID: 9267270006** Collected: 04/13/10 09:37 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:25	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:25	7440-38-2	
Barium	**65.3**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:25	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:25	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:25	7440-43-9	
Chromium	**0.55J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:25	7440-47-3	
Cobalt	**122**	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:25	7440-48-4	
Copper	**5.0**	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:25	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:25	7439-92-1	
Nickel	**12.9**	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:25	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:25	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:25	7440-22-4	
Vanadium	**0.39J**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:25	7440-62-2	
Zinc	**14.1**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:25	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.090J**	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:13	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/20/10 00:27	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/20/10 00:27	107-13-1	
Benzene	**1.7**	ug/L	1.0	0.25	1		04/20/10 00:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/20/10 00:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/20/10 00:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/20/10 00:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/20/10 00:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/20/10 00:27	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/20/10 00:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/20/10 00:27	56-23-5	
Chlorobenzene	**1.4**	ug/L	1.0	0.23	1		04/20/10 00:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/20/10 00:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/20/10 00:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/20/10 00:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/20/10 00:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/20/10 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/20/10 00:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/20/10 00:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/20/10 00:27	95-50-1	
1,4-Dichlorobenzene	**3.9**	ug/L	1.0	0.33	1		04/20/10 00:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/20/10 00:27	110-57-6	
1,1-Dichloroethane	**1.1**	ug/L	1.0	0.32	1		04/20/10 00:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/20/10 00:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/20/10 00:27	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: MW-06 **Lab ID: 9267270006** Collected: 04/13/10 09:37 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**5.9**	ug/L	1.0	0.19	1		04/20/10 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/20/10 00:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/20/10 00:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/20/10 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/20/10 00:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/20/10 00:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/20/10 00:27	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/20/10 00:27	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/20/10 00:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/20/10 00:27	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/20/10 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/20/10 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/20/10 00:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/20/10 00:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/20/10 00:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/20/10 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/20/10 00:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/20/10 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/20/10 00:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/20/10 00:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/20/10 00:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/20/10 00:27	75-01-4	
Xylene (Total)	**3.4**	ug/L	2.0	0.66	1		04/20/10 00:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/20/10 00:27	1330-20-7	
o-Xylene	**3.4**	ug/L	1.0	0.23	1		04/20/10 00:27	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/20/10 00:27	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		04/20/10 00:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		04/20/10 00:27	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/20/10 00:27	2037-26-5	

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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: SW-01 **Lab ID: 9267270007** Collected: 04/13/10 16:00 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:29	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:29	7440-38-2	
Barium	**16.8**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:29	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:29	7440-43-9	
Chromium	**0.73J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:29	7440-47-3	
Cobalt	ND	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:29	7440-48-4	
Copper	**0.33J**	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:29	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:29	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:29	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:29	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:29	7440-22-4	
Vanadium	**0.63J**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:29	7440-62-2	
Zinc	**3.4J**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:29	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 04:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/15/10 10:50	04/16/10 16:16	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/10 05:12	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/10 05:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/10 05:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/10 05:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/10 05:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/10 05:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/10 05:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/10 05:12	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/10 05:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/10 05:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/10 05:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/10 05:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/10 05:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/10 05:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/10 05:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/10 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/10 05:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/10 05:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/10 05:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/10 05:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/10 05:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/16/10 05:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/10 05:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/10 05:12	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: SW-01 **Lab ID: 9267270007** Collected: 04/13/10 16:00 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/10 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/10 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/10 05:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/10 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/10 05:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/10 05:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/10 05:12	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/10 05:12	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/10 05:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/10 05:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/10 05:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/10 05:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/10 05:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/10 05:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/10 05:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/10 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/10 05:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/10 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/10 05:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/10 05:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/10 05:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/10 05:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/10 05:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/10 05:12	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/10 05:12	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/16/10 05:12	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		04/16/10 05:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		04/16/10 05:12	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		04/16/10 05:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: SW-02 **Lab ID: 9267270008** Collected: 04/13/10 14:58 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/22/10 12:55	04/23/10 20:42	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/22/10 12:55	04/23/10 20:42	7440-38-2	
Barium	**16.6**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:42	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/22/10 12:55	04/23/10 20:42	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/22/10 12:55	04/23/10 20:42	7440-43-9	
Chromium	**4.8J**	ug/L	5.0	0.40	1	04/22/10 12:55	04/23/10 20:42	7440-47-3	
Cobalt	ND	ug/L	5.0	0.60	1	04/22/10 12:55	04/23/10 20:42	7440-48-4	
Copper	**0.50J**	ug/L	5.0	0.30	1	04/22/10 12:55	04/23/10 20:42	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/22/10 12:55	04/23/10 20:42	7439-92-1	
Nickel	**1.7J**	ug/L	5.0	1.7	1	04/22/10 12:55	04/23/10 20:42	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/22/10 12:55	04/23/10 20:42	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/22/10 12:55	04/23/10 20:42	7440-22-4	
Vanadium	**0.87J**	ug/L	5.0	0.20	1	04/22/10 12:55	04/23/10 20:42	7440-62-2	
Zinc	**2.4J**	ug/L	10.0	0.40	1	04/22/10 12:55	04/23/10 20:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.10	0.050	1	04/21/10 15:17	04/22/10 05:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/16/10 10:55	04/16/10 19:23	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/10 05:36	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/10 05:36	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/10 05:36	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/10 05:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/10 05:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/10 05:36	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/10 05:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/10 05:36	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/10 05:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/10 05:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/10 05:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/10 05:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/10 05:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/10 05:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/10 05:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/10 05:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/10 05:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/10 05:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/10 05:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/10 05:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/10 05:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/16/10 05:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/10 05:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/10 05:36	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: SW-02 **Lab ID: 9267270008** Collected: 04/13/10 14:58 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/10 05:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/10 05:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/10 05:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/10 05:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/10 05:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/10 05:36	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/10 05:36	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/10 05:36	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/10 05:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/10 05:36	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/10 05:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/10 05:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/10 05:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/10 05:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/10 05:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/10 05:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/10 05:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/10 05:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/10 05:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/10 05:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/10 05:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/10 05:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/10 05:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/10 05:36	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/10 05:36	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/16/10 05:36	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/16/10 05:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		04/16/10 05:36	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		04/16/10 05:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: Trip Blank **Lab ID: 9267270009** Collected: 04/13/10 00:00 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/10 06:00	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/10 06:00	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/10 06:00	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/10 06:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/10 06:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/10 06:00	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/10 06:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/10 06:00	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/10 06:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/10 06:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/10 06:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/10 06:00	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/10 06:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/10 06:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/10 06:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/10 06:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/10 06:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/10 06:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/10 06:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/10 06:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/10 06:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/16/10 06:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/10 06:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/10 06:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/10 06:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/10 06:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/10 06:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/10 06:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/10 06:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/10 06:00	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/10 06:00	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/10 06:00	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/10 06:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/10 06:00	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/10 06:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/10 06:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/10 06:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/10 06:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/10 06:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/10 06:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/10 06:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/10 06:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/10 06:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/10 06:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/10 06:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/10 06:00	75-01-4	

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ANALYTICAL RESULTS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

Sample: Trip Blank **Lab ID: 9267270009** Collected: 04/13/10 00:00 Received: 04/14/10 08:24 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/10 06:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/10 06:00	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/10 06:00	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/16/10 06:00	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/16/10 06:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		04/16/10 06:00	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		04/16/10 06:00	2037-26-5	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MPRP/6184 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007, 9267270008

METHOD BLANK: 432176 Matrix: Water
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007, 9267270008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	04/23/10 19:41	
Arsenic	ug/L	ND	5.0	04/23/10 19:41	
Barium	ug/L	ND	5.0	04/23/10 19:41	
Beryllium	ug/L	ND	1.0	04/23/10 19:41	
Cadmium	ug/L	ND	1.0	04/23/10 19:41	
Chromium	ug/L	ND	5.0	04/23/10 19:41	
Cobalt	ug/L	ND	5.0	04/23/10 19:41	
Copper	ug/L	ND	5.0	04/23/10 19:41	
Lead	ug/L	ND	5.0	04/23/10 19:41	
Nickel	ug/L	ND	5.0	04/23/10 19:41	
Selenium	ug/L	ND	10.0	04/23/10 19:41	
Silver	ug/L	ND	5.0	04/23/10 19:41	
Vanadium	ug/L	ND	5.0	04/23/10 19:41	
Zinc	ug/L	0.89J	10.0	04/23/10 19:41	

LABORATORY CONTROL SAMPLE: 432177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	502	100	80-120	
Arsenic	ug/L	500	490	98	80-120	
Barium	ug/L	500	502	100	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	532	106	80-120	
Chromium	ug/L	500	516	103	80-120	
Cobalt	ug/L	500	512	102	80-120	
Copper	ug/L	500	492	98	80-120	
Lead	ug/L	500	504	101	80-120	
Nickel	ug/L	500	506	101	80-120	
Selenium	ug/L	500	491	98	80-120	
Silver	ug/L	250	250	100	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	514	103	80-120	

MATRIX SPIKE SAMPLE: 432178

Parameter	Units	9267270001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	487	97	75-125	
Arsenic	ug/L	ND	500	477	95	75-125	
Barium	ug/L	107	500	588	96	75-125	
Beryllium	ug/L	ND	500	491	98	75-125	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

MATRIX SPIKE SAMPLE: 432178

Parameter	Units	9267270001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	500	509	102	75-125	
Chromium	ug/L	ND	500	496	99	75-125	
Cobalt	ug/L	312	500	806	99	75-125	
Copper	ug/L	1.3J	500	480	96	75-125	
Lead	ug/L	ND	500	475	95	75-125	
Nickel	ug/L	14.6	500	501	97	75-125	
Selenium	ug/L	ND	500	480	96	75-125	
Silver	ug/L	ND	250	241	96	75-125	
Vanadium	ug/L	ND	500	493	99	75-125	
Zinc	ug/L	11.4	500	509	100	75-125	

SAMPLE DUPLICATE: 432179

Parameter	Units	9267270002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	45.3	44.5	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	1.2J	2.3J		25	
Cobalt	ug/L	12.1	11.8	3	25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Vanadium	ug/L	0.28J	0.26J		25	
Zinc	ug/L	64.4	72.4	12	25	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: ICPM/20032 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007, 9267270008

METHOD BLANK: 775906 Matrix: Water
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007, 9267270008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	ND	0.10	04/22/10 04:20	

LABORATORY CONTROL SAMPLE: 775907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	86.0	107	85-115	

MATRIX SPIKE SAMPLE: 775910

Parameter	Units	9267328003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	83.8	105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 777452 777453

Parameter	Units	9267328001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	ND	80	80	83.9	84.5	105	106	70-130	1	20	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MERP/2764 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007

METHOD BLANK: 428945 Matrix: Water
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005, 9267270006, 9267270007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/16/10 15:09	

LABORATORY CONTROL SAMPLE: 428946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	80-120	

MATRIX SPIKE SAMPLE: 428947

Parameter	Units	9267247001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.0	81	75-125	

SAMPLE DUPLICATE: 428948

Parameter	Units	9267247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MERP/2766
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9267270008

METHOD BLANK: 428954
Matrix: Water
Associated Lab Samples: 9267270008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/16/10 19:18	

LABORATORY CONTROL SAMPLE: 428955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 428957 428958

Parameter	Units	9267328008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.6	101	103	75-125	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 428959 428960

Parameter	Units	9267363012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	96	95	75-125	0	25	

SAMPLE DUPLICATE: 428956

Parameter	Units	9267270008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MSV/10620 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005

METHOD BLANK: 429262 Matrix: Water
Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,1-Dichloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,1-Dichloroethene	ug/L	ND	1.0	04/16/10 04:00	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/16/10 04:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	04/16/10 04:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/16/10 04:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/16/10 04:00	
1,2-Dichloroethane	ug/L	ND	1.0	04/16/10 04:00	
1,2-Dichloropropane	ug/L	ND	1.0	04/16/10 04:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/16/10 04:00	
2-Butanone (MEK)	ug/L	ND	5.0	04/16/10 04:00	
2-Hexanone	ug/L	ND	5.0	04/16/10 04:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/16/10 04:00	
Acetone	ug/L	ND	25.0	04/16/10 04:00	
Acrylonitrile	ug/L	ND	10.0	04/16/10 04:00	
Benzene	ug/L	ND	1.0	04/16/10 04:00	
Bromochloromethane	ug/L	ND	1.0	04/16/10 04:00	
Bromodichloromethane	ug/L	ND	1.0	04/16/10 04:00	
Bromoform	ug/L	ND	1.0	04/16/10 04:00	
Bromomethane	ug/L	ND	5.0	04/16/10 04:00	
Carbon disulfide	ug/L	ND	2.0	04/16/10 04:00	
Carbon tetrachloride	ug/L	ND	1.0	04/16/10 04:00	
Chlorobenzene	ug/L	ND	1.0	04/16/10 04:00	
Chloroethane	ug/L	ND	1.0	04/16/10 04:00	
Chloroform	ug/L	ND	1.0	04/16/10 04:00	
Chloromethane	ug/L	ND	1.0	04/16/10 04:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/16/10 04:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/16/10 04:00	
Dibromochloromethane	ug/L	ND	1.0	04/16/10 04:00	
Dibromomethane	ug/L	ND	1.0	04/16/10 04:00	
Ethylbenzene	ug/L	ND	1.0	04/16/10 04:00	
Iodomethane	ug/L	ND	5.0	04/16/10 04:00	
m&p-Xylene	ug/L	ND	2.0	04/16/10 04:00	
Methylene Chloride	ug/L	2.4	2.0	04/16/10 04:00	C9
o-Xylene	ug/L	ND	1.0	04/16/10 04:00	
Styrene	ug/L	ND	1.0	04/16/10 04:00	
Tetrachloroethene	ug/L	ND	1.0	04/16/10 04:00	
Toluene	ug/L	ND	1.0	04/16/10 04:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/16/10 04:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/16/10 04:00	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

METHOD BLANK: 429262 Matrix: Water

Associated Lab Samples: 9267270001, 9267270002, 9267270003, 9267270004, 9267270005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/16/10 04:00	
Trichloroethene	ug/L	ND	1.0	04/16/10 04:00	
Trichlorofluoromethane	ug/L	ND	1.0	04/16/10 04:00	
Vinyl acetate	ug/L	ND	2.0	04/16/10 04:00	
Vinyl chloride	ug/L	ND	1.0	04/16/10 04:00	
Xylene (Total)	ug/L	ND	2.0	04/16/10 04:00	
1,2-Dichloroethane-d4 (S)	%	101	79-120	04/16/10 04:00	
4-Bromofluorobenzene (S)	%	96	87-109	04/16/10 04:00	
Dibromofluoromethane (S)	%	104	85-115	04/16/10 04:00	
Toluene-d8 (S)	%	102	70-120	04/16/10 04:00	

LABORATORY CONTROL SAMPLE: 429263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	83-125	
1,1,1-Trichloroethane	ug/L	50	56.1	112	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	73-127	
1,1,2-Trichloroethane	ug/L	50	50.7	101	77-123	
1,1-Dichloroethane	ug/L	50	48.8	98	76-129	
1,1-Dichloroethene	ug/L	50	61.1	122	78-146	
1,2,3-Trichloropropane	ug/L	50	50.9	102	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.8	96	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	49.9	100	81-125	
1,2-Dichlorobenzene	ug/L	50	49.6	99	82-126	
1,2-Dichloroethane	ug/L	50	53.2	106	72-126	
1,2-Dichloropropane	ug/L	50	50.7	101	80-127	
1,4-Dichlorobenzene	ug/L	50	49.2	98	79-125	
2-Butanone (MEK)	ug/L	100	122	122	50-134	
2-Hexanone	ug/L	100	115	115	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-131	
Acetone	ug/L	100	166	166	50-146	L3
Acrylonitrile	ug/L	250	284	114	66-124	
Benzene	ug/L	50	53.0	106	78-128	
Bromochloromethane	ug/L	50	54.4	109	73-124	
Bromodichloromethane	ug/L	50	49.3	99	81-125	
Bromoform	ug/L	50	50.0	100	71-125	
Bromomethane	ug/L	50	39.7	79	50-150	
Carbon disulfide	ug/L	50	72.6	145	54-150	
Carbon tetrachloride	ug/L	50	56.8	114	81-137	
Chlorobenzene	ug/L	50	50.6	101	82-126	
Chloroethane	ug/L	50	44.3	89	69-140	
Chloroform	ug/L	50	51.4	103	77-129	
Chloromethane	ug/L	50	53.3	107	54-139	
cis-1,2-Dichloroethene	ug/L	50	54.9	110	76-133	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	76-127	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

LABORATORY CONTROL SAMPLE: 429263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	48.3	97	77-125	
Dibromomethane	ug/L	50	56.0	112	77-125	
Ethylbenzene	ug/L	50	51.7	103	80-127	
Iodomethane	ug/L	100	81.7	82	65-172	
m&p-Xylene	ug/L	100	104	104	82-127	
Methylene Chloride	ug/L	50	52.9	106	67-133	
o-Xylene	ug/L	50	51.8	104	83-124	
Styrene	ug/L	50	50.4	101	80-130	
Tetrachloroethene	ug/L	50	53.2	106	78-128	
Toluene	ug/L	50	51.2	102	76-126	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	46.6	93	51-140	
Trichloroethene	ug/L	50	56.5	113	79-127	
Trichlorofluoromethane	ug/L	50	45.1	90	76-148	
Vinyl acetate	ug/L	100	79.2	79	50-150	
Vinyl chloride	ug/L	50	43.2	86	67-143	
Xylene (Total)	ug/L	150	155	104	83-125	
1,2-Dichloroethane-d4 (S)	%			98	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 429264 429265

Parameter	Units	9267328008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	72.3	74.2	145	148	60-150	3	30	
Benzene	ug/L	ND	50	50	60.4	59.8	121	120	74-136	1	30	
Chlorobenzene	ug/L	ND	50	50	55.3	55.9	111	112	79-135	1	30	
Toluene	ug/L	ND	50	50	58.3	57.4	117	115	73-131	2	30	
Trichloroethene	ug/L	0.63J	50	50	62.1	61.9	123	122	73-131	0	30	
1,2-Dichloroethane-d4 (S)	%						97	102	79-120			
4-Bromofluorobenzene (S)	%						98	98	87-109			
Dibromofluoromethane (S)	%						104	108	85-115			
Toluene-d8 (S)	%						101	100	70-120			

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MSV/10622 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9267270007, 9267270008, 9267270009

METHOD BLANK: 429350 Matrix: Water
Associated Lab Samples: 9267270007, 9267270008, 9267270009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,1-Dichloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,1-Dichloroethene	ug/L	ND	1.0	04/16/10 02:48	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/16/10 02:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	04/16/10 02:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/16/10 02:48	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/16/10 02:48	
1,2-Dichloroethane	ug/L	ND	1.0	04/16/10 02:48	
1,2-Dichloropropane	ug/L	ND	1.0	04/16/10 02:48	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/16/10 02:48	
2-Butanone (MEK)	ug/L	ND	5.0	04/16/10 02:48	
2-Hexanone	ug/L	ND	5.0	04/16/10 02:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/16/10 02:48	
Acetone	ug/L	ND	25.0	04/16/10 02:48	
Acrylonitrile	ug/L	ND	10.0	04/16/10 02:48	
Benzene	ug/L	ND	1.0	04/16/10 02:48	
Bromochloromethane	ug/L	ND	1.0	04/16/10 02:48	
Bromodichloromethane	ug/L	ND	1.0	04/16/10 02:48	
Bromoform	ug/L	ND	1.0	04/16/10 02:48	
Bromomethane	ug/L	ND	5.0	04/16/10 02:48	
Carbon disulfide	ug/L	ND	2.0	04/16/10 02:48	
Carbon tetrachloride	ug/L	ND	1.0	04/16/10 02:48	
Chlorobenzene	ug/L	ND	1.0	04/16/10 02:48	
Chloroethane	ug/L	ND	1.0	04/16/10 02:48	
Chloroform	ug/L	ND	1.0	04/16/10 02:48	
Chloromethane	ug/L	ND	1.0	04/16/10 02:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/16/10 02:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/16/10 02:48	
Dibromochloromethane	ug/L	ND	1.0	04/16/10 02:48	
Dibromomethane	ug/L	ND	1.0	04/16/10 02:48	
Ethylbenzene	ug/L	ND	1.0	04/16/10 02:48	
Iodomethane	ug/L	ND	5.0	04/16/10 02:48	
m&p-Xylene	ug/L	ND	2.0	04/16/10 02:48	
Methylene Chloride	ug/L	2.5	2.0	04/16/10 02:48	C9
o-Xylene	ug/L	ND	1.0	04/16/10 02:48	
Styrene	ug/L	ND	1.0	04/16/10 02:48	
Tetrachloroethene	ug/L	ND	1.0	04/16/10 02:48	
Toluene	ug/L	ND	1.0	04/16/10 02:48	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/16/10 02:48	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/16/10 02:48	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

METHOD BLANK: 429350 Matrix: Water

Associated Lab Samples: 9267270007, 9267270008, 9267270009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/16/10 02:48	
Trichloroethene	ug/L	ND	1.0	04/16/10 02:48	
Trichlorofluoromethane	ug/L	ND	1.0	04/16/10 02:48	
Vinyl acetate	ug/L	ND	2.0	04/16/10 02:48	
Vinyl chloride	ug/L	ND	1.0	04/16/10 02:48	
Xylene (Total)	ug/L	ND	2.0	04/16/10 02:48	
1,2-Dichloroethane-d4 (S)	%	99	79-120	04/16/10 02:48	
4-Bromofluorobenzene (S)	%	101	87-109	04/16/10 02:48	
Dibromofluoromethane (S)	%	105	85-115	04/16/10 02:48	
Toluene-d8 (S)	%	100	70-120	04/16/10 02:48	

LABORATORY CONTROL SAMPLE: 429351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	83-125	
1,1,1-Trichloroethane	ug/L	50	56.1	112	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	73-127	
1,1,2-Trichloroethane	ug/L	50	50.7	101	77-123	
1,1-Dichloroethane	ug/L	50	58.8	118	76-129	
1,1-Dichloroethene	ug/L	50	59.1	118	78-146	
1,2,3-Trichloropropane	ug/L	50	49.9	100	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.0	100	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	81-125	
1,2-Dichlorobenzene	ug/L	50	50.5	101	82-126	
1,2-Dichloroethane	ug/L	50	53.3	107	72-126	
1,2-Dichloropropane	ug/L	50	53.1	106	80-127	
1,4-Dichlorobenzene	ug/L	50	50.7	101	79-125	
2-Butanone (MEK)	ug/L	100	129	129	50-134	
2-Hexanone	ug/L	100	121	121	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-131	
Acetone	ug/L	100	181	181	50-146	L3
Acrylonitrile	ug/L	250	286	114	66-124	
Benzene	ug/L	50	54.1	108	78-128	
Bromochloromethane	ug/L	50	54.7	109	73-124	
Bromodichloromethane	ug/L	50	51.4	103	81-125	
Bromoform	ug/L	50	50.3	101	71-125	
Bromomethane	ug/L	50	39.0	78	50-150	
Carbon disulfide	ug/L	50	71.4	143	54-150	
Carbon tetrachloride	ug/L	50	57.5	115	81-137	
Chlorobenzene	ug/L	50	50.9	102	82-126	
Chloroethane	ug/L	50	43.0	86	69-140	
Chloroform	ug/L	50	54.2	108	77-129	
Chloromethane	ug/L	50	51.2	102	54-139	
cis-1,2-Dichloroethene	ug/L	50	57.5	115	76-133	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	76-127	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

LABORATORY CONTROL SAMPLE: 429351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.1	98	77-125	
Dibromomethane	ug/L	50	57.3	115	77-125	
Ethylbenzene	ug/L	50	50.8	102	80-127	
Iodomethane	ug/L	100	96.5	96	65-172	
m&p-Xylene	ug/L	100	104	104	82-127	
Methylene Chloride	ug/L	50	52.5	105	67-133	
o-Xylene	ug/L	50	51.7	103	83-124	
Styrene	ug/L	50	50.5	101	80-130	
Tetrachloroethene	ug/L	50	54.3	109	78-128	
Toluene	ug/L	50	52.7	105	76-126	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.9	104	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	48.6	97	51-140	
Trichloroethene	ug/L	50	56.6	113	79-127	
Trichlorofluoromethane	ug/L	50	43.1	86	76-148	
Vinyl acetate	ug/L	100	103	103	50-150	
Vinyl chloride	ug/L	50	43.2	86	67-143	
Xylene (Total)	ug/L	150	156	104	83-125	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			98	87-109	
Dibromofluoromethane (S)	%			103	85-115	
Toluene-d8 (S)	%			102	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 429352 429353

Parameter	Units	9267398009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	67.4	71.8	135	144	60-150	6	30	
Benzene	ug/L	ND	50	50	60.9	60.2	122	120	74-136	1	30	
Chlorobenzene	ug/L	ND	50	50	55.6	56.0	111	112	79-135	1	30	
Toluene	ug/L	ND	50	50	58.5	58.6	117	117	73-131	0	30	
Trichloroethene	ug/L	ND	50	50	62.8	60.8	126	122	73-131	3	30	
1,2-Dichloroethane-d4 (S)	%						97	101	79-120			
4-Bromofluorobenzene (S)	%						97	101	87-109			
Dibromofluoromethane (S)	%						101	106	85-115			
Toluene-d8 (S)	%						101	101	70-120			

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

QC Batch: MSV/10660
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9267270006

METHOD BLANK: 430671
Matrix: Water
Associated Lab Samples: 9267270006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,1-Dichloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,1-Dichloroethene	ug/L	ND	1.0	04/20/10 00:03	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/20/10 00:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	04/20/10 00:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/20/10 00:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/20/10 00:03	
1,2-Dichloroethane	ug/L	ND	1.0	04/20/10 00:03	
1,2-Dichloropropane	ug/L	ND	1.0	04/20/10 00:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/20/10 00:03	
2-Butanone (MEK)	ug/L	ND	5.0	04/20/10 00:03	
2-Hexanone	ug/L	ND	5.0	04/20/10 00:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/20/10 00:03	
Acetone	ug/L	ND	25.0	04/20/10 00:03	
Acrylonitrile	ug/L	ND	10.0	04/20/10 00:03	
Benzene	ug/L	ND	1.0	04/20/10 00:03	
Bromochloromethane	ug/L	ND	1.0	04/20/10 00:03	
Bromodichloromethane	ug/L	ND	1.0	04/20/10 00:03	
Bromoform	ug/L	ND	1.0	04/20/10 00:03	
Bromomethane	ug/L	ND	5.0	04/20/10 00:03	
Carbon disulfide	ug/L	ND	2.0	04/20/10 00:03	
Carbon tetrachloride	ug/L	ND	1.0	04/20/10 00:03	
Chlorobenzene	ug/L	ND	1.0	04/20/10 00:03	
Chloroethane	ug/L	ND	1.0	04/20/10 00:03	
Chloroform	ug/L	ND	1.0	04/20/10 00:03	
Chloromethane	ug/L	ND	1.0	04/20/10 00:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/20/10 00:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/20/10 00:03	
Dibromochloromethane	ug/L	ND	1.0	04/20/10 00:03	
Dibromomethane	ug/L	ND	1.0	04/20/10 00:03	
Ethylbenzene	ug/L	ND	1.0	04/20/10 00:03	
Iodomethane	ug/L	ND	5.0	04/20/10 00:03	
m&p-Xylene	ug/L	ND	2.0	04/20/10 00:03	
Methylene Chloride	ug/L	ND	2.0	04/20/10 00:03	
o-Xylene	ug/L	ND	1.0	04/20/10 00:03	
Styrene	ug/L	ND	1.0	04/20/10 00:03	
Tetrachloroethene	ug/L	ND	1.0	04/20/10 00:03	
Toluene	ug/L	ND	1.0	04/20/10 00:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/20/10 00:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/20/10 00:03	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

METHOD BLANK: 430671 Matrix: Water

Associated Lab Samples: 9267270006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/20/10 00:03	
Trichloroethene	ug/L	ND	1.0	04/20/10 00:03	
Trichlorofluoromethane	ug/L	ND	1.0	04/20/10 00:03	
Vinyl acetate	ug/L	ND	2.0	04/20/10 00:03	
Vinyl chloride	ug/L	ND	1.0	04/20/10 00:03	
Xylene (Total)	ug/L	ND	2.0	04/20/10 00:03	
1,2-Dichloroethane-d4 (S)	%	97	79-120	04/20/10 00:03	
4-Bromofluorobenzene (S)	%	99	87-109	04/20/10 00:03	
Dibromofluoromethane (S)	%	99	85-115	04/20/10 00:03	
Toluene-d8 (S)	%	100	70-120	04/20/10 00:03	

LABORATORY CONTROL SAMPLE: 430672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	83-125	
1,1,1-Trichloroethane	ug/L	50	49.3	99	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	73-127	
1,1,2-Trichloroethane	ug/L	50	51.5	103	77-123	
1,1-Dichloroethane	ug/L	50	47.3	95	76-129	
1,1-Dichloroethene	ug/L	50	45.4	91	78-146	
1,2,3-Trichloropropane	ug/L	50	52.7	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	81-125	
1,2-Dichlorobenzene	ug/L	50	53.0	106	82-126	
1,2-Dichloroethane	ug/L	50	48.0	96	72-126	
1,2-Dichloropropane	ug/L	50	49.4	99	80-127	
1,4-Dichlorobenzene	ug/L	50	51.7	103	79-125	
2-Butanone (MEK)	ug/L	100	91.6	92	50-134	
2-Hexanone	ug/L	100	109	109	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.5	98	70-131	
Acetone	ug/L	100	103	103	50-146	
Acrylonitrile	ug/L	250	239	96	66-124	
Benzene	ug/L	50	49.2	98	78-128	
Bromochloromethane	ug/L	50	47.1	94	73-124	
Bromodichloromethane	ug/L	50	45.8	92	81-125	
Bromoform	ug/L	50	51.6	103	71-125	
Bromomethane	ug/L	50	29.5	59	50-150	
Carbon disulfide	ug/L	50	44.1	88	54-150	
Carbon tetrachloride	ug/L	50	50.2	100	81-137	
Chlorobenzene	ug/L	50	53.6	107	82-126	
Chloroethane	ug/L	50	41.9	84	69-140	
Chloroform	ug/L	50	47.1	94	77-129	
Chloromethane	ug/L	50	41.8	84	54-139	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	76-133	
cis-1,3-Dichloropropene	ug/L	50	48.4	97	76-127	

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QUALITY CONTROL DATA

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

LABORATORY CONTROL SAMPLE: 430672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	52.7	105	77-125	
Dibromomethane	ug/L	50	55.3	111	77-125	
Ethylbenzene	ug/L	50	54.4	109	80-127	
Iodomethane	ug/L	100	95.8	96	65-172	
m&p-Xylene	ug/L	100	109	109	82-127	
Methylene Chloride	ug/L	50	40.3	81	67-133	
o-Xylene	ug/L	50	55.6	111	83-124	
Styrene	ug/L	50	55.0	110	80-130	
Tetrachloroethene	ug/L	50	55.7	111	78-128	
Toluene	ug/L	50	50.4	101	76-126	
trans-1,2-Dichloroethene	ug/L	50	47.2	94	78-134	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	52.2	104	51-140	
Trichloroethene	ug/L	50	49.2	98	79-127	
Trichlorofluoromethane	ug/L	50	38.6	77	76-148	
Vinyl acetate	ug/L	100	94.3	94	50-150	
Vinyl chloride	ug/L	50	37.8	76	67-143	
Xylene (Total)	ug/L	150	164	110	83-125	
1,2-Dichloroethane-d4 (S)	%			98	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 430673 430674

Parameter	Units	9267477003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	5.9	50	50	52.6	52.6	93	94	60-150	0	30	
Benzene	ug/L	2.5	50	50	50.3	52.0	96	99	74-136	3	30	
Chlorobenzene	ug/L	3.3	50	50	54.1	56.9	102	107	79-135	5	30	
Toluene	ug/L	ND	50	50	48.3	49.8	97	100	73-131	3	30	
Trichloroethene	ug/L	5.9	50	50	53.5	54.2	95	97	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						98	98	79-120			
4-Bromofluorobenzene (S)	%						99	102	87-109			
Dibromofluoromethane (S)	%						99	101	85-115			
Toluene-d8 (S)	%						98	99	70-120			

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Jackson Co. LF 2040.12
Pace Project No.: 9267270

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1352679

Section A Required Client Information:

Company: Altamont Environmental
Address: 231 Haywood Street
Asheville NC 28801
Email To: cgilbert@altamontenvironmental.com
Phone: 828-281-3350 Fax: 828-281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Chris Gilbert
Copy To:
Purchase Order No.:
Project Name: Jackson Co. LF
Project Number: 2040.12

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager: Lorri Patton
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) Appendix I VOCs	Appendix I Metals 6010	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			4/13/10	1046	16	4			X	X					X	X		9267270-001
2	MW-02	WT	G			4/13/10	1429	16	4			X	X					X	X		-002
3	MW-03	WT	G			4/13/10	1333	16	4			X	X					X	X		-003
4	MW-04	WT	G			4/13/10	1552	15	4			X	X					X	X		-004
5	MW-05	WT	G			4/13/10	1245	18	4			X	X					X	X		-005
6	MW-06	WT	G			4/13/10	937	15	4			X	X					X	X		-006
7	SW-01	WT	G			4/13/10	1600	16	4			X	X					X	X		-007
8	SW-02	WT	G			4/13/10	1458	15	4			X	X					X	X		-008
9	TRIP BLANK LAB →								2				X					X			-009
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Evan Yurkanin / Altamont	4/14/10	0824	Lorri Patton	4/14/10	0824	2.8	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Evan Yurkanin
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 4/13/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Altamont Project # 9267276

Where Received: ☐ Huntersville ☒ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#2 / 72490786 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add/ Subtract 0.8 C

Corrected Cooler Temp.: 2.8 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4/14/10 AP

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	AP
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LP **Date:** 4/14/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)