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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).
- 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, E.I. 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)
Madison County Closed Solid Waste Facility	389 Long Branch Road Marshall, NC 28753	58-02	.0500	April 19-21, 2011

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.

Joel D. Lenk, PG — Facility Representative Name (Print)
Project Geologist — Title
(828) 281-3350 — (Area Code) Telephone Number

Signature
6/21/11 — Date

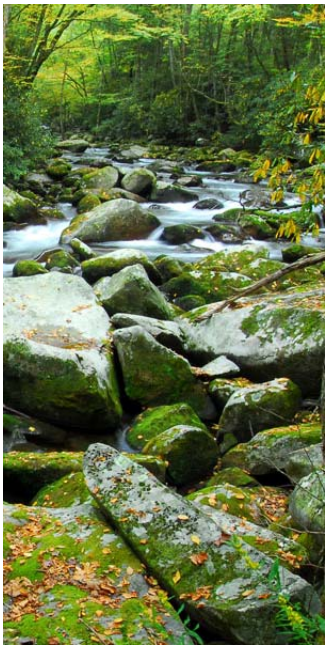
Affix NC Licensed/ Professional Geologist Seal

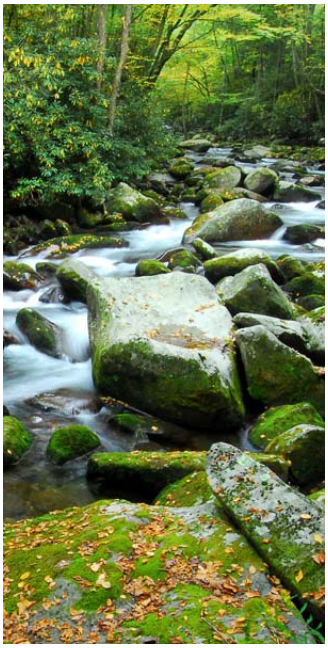
NORTH CAROLINA LICENSED SEAL 1044 GEOLOGIST JOEL D. LENK

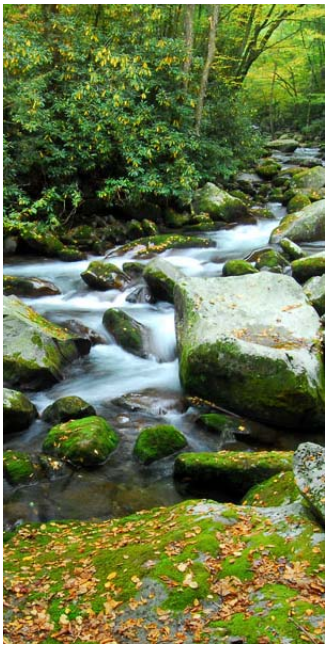
231 Haywood Street, Asheville, North Carolina 28801
Facility Representative Address

C-2185
NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Spring 2011 Semiannual Water Quality Monitoring Report

Madison County Closed Solid Waste Facility

Madison County, North Carolina Permit #58-02

June 21, 2011

Prepared for
Madison County, North Carolina

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

Spring 2011 Semiannual Water Quality Monitoring Report

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Joel Lenk, P.G.
Project Geologist

Table of Contents

1.0 Introduction 1

2.0 Methods 2

2.1 Groundwater Purging and Sampling Methods 2

2.1.1 Monitoring Well Sampling Methods 2

2.1.2 Domestic Well Sampling Methods 2

2.1.3 Surface Water Sampling Methods 3

2.2 Sample Handling, Documentation, and Analysis 3

3.0 Findings 4

3.1 Analytical Results 4

3.1.1 Groundwater Monitoring Wells 4

3.1.2 Groundwater—Domestic Water Wells 5

3.1.3 Surface Water 6

4.0 Summary and Discussion 7

4.1 Site Hydrogeology 7

4.2 Groundwater Quality—Monitoring Wells 7

4.3 Groundwater Quality—Domestic Wells 7

4.4 Surface Water Quality 8

Figures

1. Site Location Map
2. Sample Location Map

Tables

1. Summary of Laboratory Analyses Performed on Samples
2. Analytical Data and Field Parameters—April 2011
3. Solid Waste Section Limit Exceedance Notification
4. Water Quality Standard Exceedance Notification

Appendices

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

1.0 Introduction

The Madison County Solid Waste Department maintains a closed municipal solid waste landfill (closed landfill) located near the intersection of US Highway 25/70 Bypass and Long Branch Road (State Route 1582) in Madison County, North Carolina (Figure 1). The permit for the landfill requires semiannual monitoring of groundwater and surface water quality. This report describes the first groundwater and surface water quality sampling event conducted in 2011. This report is being submitted in accordance with monitoring requirements for closed landfills as stipulated in the North Carolina Department of Environment and Natural Resources (DENR) Division of Waste Management (DWM) Permit No. 58-02 issued to the Madison County Solid Waste Department.

This semiannual report presents analytical results for, and provides an evaluation of groundwater and surface water quality for the closed landfill. Section 4 also contains a discussion of site hydrogeology, as well as activities conducted by Madison County in response to an impacted domestic well discovered in the spring of 2009 (initially reported in the *Spring 2009 Semiannual Water Quality Monitoring Report*).

Madison County and the DWM developed and implemented a plan of action to upgrade the groundwater monitoring network at the landfill, which was aimed at determining whether the source of the impact to the domestic well was associated with the closed landfill. The result of the plan and upgrades will help Madison County and the DWM continue to protect the health and safety of the public and the environment.

2.0 Methods

Closed landfill monitoring wells (MW-01-OLD, MW-02-OLD, MW-03-OLD and MW-04-OLD), the background spring (BG-SPRING-OLD), and surface water sample locations (SW-01-OLD and SW-02-OLD) were sampled by Altamont Environmental, Inc. (Altamont) personnel on April 19 and 21, 2011. The monitoring wells MW-03-OLD and MW-04-OLD were installed on December 10, 2010 and December 30, 2010, respectively. Details regarding installation of both wells were reported to DENR in a summary report titled *Phased Assessment Plan and Upgrade of Monitoring Network*, dated March 2, 2011. Both monitoring wells were included in this spring 2011 semiannual sampling event.

In addition, two domestic drinking water wells (DW-01 and DW-02 [impacted domestic well]) were sampled on April 19, 2011 (Table 1). Approximate sample locations are depicted on Figure 2.

In the tables associated with this report, the identification of a well ("WELL ID") consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well MW-01-OLD is identified on the tables as 5802-MW01OLD. In the figures and text, however, the identification of a well consists only of the name of the well and does not include the permit number for the facility.

The water sample collected from the BG-SPRING-OLD sampling location is treated as a groundwater sample for the following reasons:

- Groundwater does not discharge to the ground surface at the sampling point.
- Construction of the sample point is similar to construction of a temporary monitoring well or piezometer and is located upslope and upgradient of a springhead.
- The sampling point is constructed of a PVC casing extending below ground surface and has a screened interval from which groundwater is collected and recharges.

2.1 Groundwater Purging and Sampling Methods

2.1.1 Monitoring Well Sampling Methods

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth at each of the wells was measured and recorded in order to calculate the well volume. At each sample location, an initial round of field parameters consisting of pH, specific conductivity, dissolved oxygen, oxidation reduction potential, turbidity, and temperature was measured and recorded. Water-level measurements and field parameters are included in Table 2; and on the sampling logs, which are presented in Appendix A. Groundwater monitoring wells and sampling point BG-SPRING-OLD were then purged, each with a new disposable polyethylene bailer. As each consecutive well volume was removed with the bailer, an additional round of groundwater parameters was recorded. Each well was purged until three well volumes were removed and field parameters stabilized, or until the well had been bailed dry. Wells that were bailed dry were allowed to recharge prior to collecting a groundwater sample.

2.1.2 Domestic Well Sampling Methods

Altamont personnel sampled the two domestic wells, DW-01 and DW-02, on April 19, 2011. Both domestic wells were purged and sampled using the dedicated pump existing in each of the wells. Groundwater obtained in order to measure field parameters for samples from domestic well DW-01 was accessed from a spigot in the basement of the Mrs. J. V. Edwards' house because a spigot does not exist at the wellhead. Groundwater obtained in order to measure field parameters and for samples from domestic well DW-02 was obtained from a spigot at the wellhead. Altamont personnel recorded one round of field parameters prior to purging the well, and after each consecutive purge volume of 10 gallons had been pumped from the well. A

final round of field parameters was recorded immediately before collecting the groundwater sample after a minimum of 30 gallons was purged from the well. Field parameters are reported in Table 2 and Appendix A. Groundwater samples were collected from each domestic well using laboratory-supplied sample containers by a technician wearing a new pair of disposable nitrile gloves.

2.1.3 Surface Water Sampling Methods

Surface water samples SW-01-OLD and SW-02-OLD were collected at designated locations along Profitt Branch, which flows adjacent to the southern site-boundary in an east-to-west direction (Figure 2). The surface water sample collected at the SW-01-OLD location is assumed to represent surface water quality upstream of the closed landfill, while the surface water sample collected at the SW-02-OLD location is assumed to represent surface water quality downstream of the closed landfill. One set of field parameters, including temperature, pH, specific conductivity, dissolved oxygen, oxidation reduction potential, and turbidity, was measured and recorded at each surface water sampling location prior to sample collection (Table 2).

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to the closed landfill sampling locations are provided on the sampling logs included in Appendix A. Water-level measurements and field parameters are included in Table 2. Altamont personnel wore new, non-reactive nitrile gloves during collection of each sample to prevent cross-contamination of water samples. Following sample collection, groundwater and surface water samples were immediately placed on ice in sample coolers for transport to Pace Analytical Laboratories (Pace), a laboratory certified in North Carolina and located in Asheville, North Carolina. Altamont submitted the water samples collected from the monitoring wells, domestic wells, and the surface water sampling locations to Pace for analysis as follows:

- Appendix I volatile organic compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Eight Resource Conservation and Recovery Act (RCRA) metals using EPA Methods 6010 and 7470

A trip blank, provided by the laboratory, was placed in the sample coolers and analyzed for Appendix I VOCs. Proper chain-of-custody documentation procedures were followed during collection and transport of each sample. The laboratory analytical reports and chain-of-custody documentation are included 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 and surface water samples collected at the closed landfill are compiled in Table 2, which is displayed in the Electronic Data Deliverable (EDD) format specified by the DENR Solid Waste Section (SWS) memorandum dated October 27, 2006. The laboratory analytical report issued by Pace for this sampling event is included as Appendix B.

As stipulated in the October 27, 2006 memorandum, non-detections were reported at the method detection limit (MDL), and all concentrations exceeding the applicable laboratory-specific MDL were reported and appropriately qualified (Tables 2, 3, and 4). The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99% confidence that the analyte concentration is greater than zero. All detections were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the SWS. The SWSL is the lowest concentration, determined by the SWS, of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is greater than the laboratory MDL and less than the SWSL, the analytical result is qualified as estimated, and is flagged with a "*J*" qualifier (italicized J-flag). A "J" qualifier is used for parameters that are detected at estimated concentrations greater than the MDL but less than the laboratory's method reporting limit (MRL). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. Detected concentrations of constituents below the applicable SWSLs are summarized in Table 2, but are not reported in the text of this report, unless they exceed their applicable North Carolina water quality standards.

Detected concentrations of analytes in groundwater samples were compared to the value specified by 15A NCAC 2L.0202 groundwater quality standards (2L Standards). Effective October 1, 2010, DENR promulgated an updated list of the interim maximum allowable concentrations (IMACs) for Class GA and GSA groundwater (in accordance with 15A NCAC 02L .0202 [c]). Detected concentrations of analytes in groundwater with no established 2L Standard were compared either to the IMACs or Groundwater Protection Standard (GWPS; pursuant to 15A NCAC 13B.1634). Detections of analytes in surface water samples were compared to the 15A NCAC 2B.0200 surface water quality standards (2B Standard).

Table 2 presents laboratory analytical results from samples collected from monitoring wells, surface water sampling locations, and the trip blank(s), as well as field parameters measured during collection of groundwater and surface water samples.

Table 3 presents all analytical results that were above the applicable SWSLs. Table 4 presents only the concentrations of analytes detected in groundwater and/or surface water samples that exceeded their respective 2L Standards, GWPSs, or 2B Standards.

3.1.1 Groundwater Monitoring Wells

Analytical results for groundwater samples collected from monitoring wells and sampling point BG-SPRING-OLD are discussed below and are summarized in Tables 2, 3, and 4. The laboratory analytical reports are included in Appendix B.

3.1.1.1 RCRA Metals

Barium was detected in four groundwater samples in excess of the SWSL established at 100 µg/L (Table 3), as follows:

- Monitoring well MW-01-OLD at 195 µg/L
- Monitoring well MW-03-OLD at 871 µg/L

- Monitoring well MW-04-OLD at 725 µg/L
- BG-SPRING-OLD at 109 µg/L

No other metals were detected at concentrations above their respective SWSL.

Concentrations of barium detected in wells MW-03-OLD and MW-04-OLD exceed the 2L Standard of 700 µg/L.

1.1.1.1 Appendix I VOCs

Four VOCs (1,4-dichlorobenzene, benzene, chlorobenzene, and ethylbenzene) were detected in the groundwater samples collected from monitoring wells MW-03-OLD and MW-04-OLD at concentrations in excess of the established SWSLs, as follows:

- Monitoring well MW-03-OLD: 1,4-dichlorobenzene at 6.3 µg/L (SWSL = 1 µg/L), benzene at 2.1 µg/L (SWSL = 1 µg/L), chlorobenzene at 7.2 µg/L (SWSL = 3 µg/L), ethylbenzene at 1.4 µg/L (SWSL = 1 µg/L)
- Monitoring well MW-04-OLD: 1,4-dichlorobenzene at 6.7 µg/L, benzene at 1.7 µg/L, chlorobenzene at 6.4 µg/L

Two of the four VOCs listed above, 1,4-dichlorobenzene, and benzene, in both MW-03-OLD and MW-04-OLD, were detected at concentrations in excess of their 2L Standards established at 6 µg/L and 1 µg/L, respectively.

1.1.2 Groundwater—Domestic Water Wells

Analytical results for groundwater samples collected from the domestic wells (DW-01 and DW-02) are discussed below and are summarized in Tables 2, 3, and 4. The laboratory analytical reports are included in Appendix B.

1.1.2.1 RCRA Metals

Barium was detected in both groundwater samples collected from domestic wells DW-01 and DW-02. Barium was detected in these two samples at concentrations of 180 µg/L and 149 µg/L respectively, which are above the SWSL of 100 µg/L.

Chromium was also detected in the groundwater sample collected from the domestic well DW-02 at a concentration of 13.4 µg/L, which exceeds its SWSL and 2L Standard, both established at 10 µg/L (see Tables 3 and 4). Please note that domestic well DW-02 is no longer used as a source of drinking water for the Mr. and Mrs. Joel Edwards' residence. A municipal supply of drinking water was connected to the residence in early 2011 after PCE was detected in DW-02 in the spring of 2009. The DENR Aquifer Protection Section mandated that DW-02 be abandoned in a Notice of Violation letter sent to Clearwater Well Drilling on October 26, 2009. DW-02 was abandoned on June 14, 2011 by Clearwater Well Drilling. The well's abandonment was observed by the Madison County Health Department.

3.1.2.2 Appendix I VOCs

During this round of sampling, no VOCs were detected in the domestic well samples at concentrations that exceed their respective SWSLs, 2L Standards, or GWPSs.

Madison County has been in open communication with the DENR SWS about the historic detections of tetrachloroethylene (PCE) in groundwater samples collected from DW-02 and has been proactively working, as described in the *Spring 2010 Semiannual Water Quality Monitoring Report*, to protect the health and safety of the Edwards', and identify the source of PCE impacting the well. Madison County utilized a plan that was approved by the SWS on September 28, 2010 to upgrade its monitoring well network to determine if the landfill is the source of PCE, and to install compliance boundary landfill gas probes at the landfill. Monitoring wells and landfill gas probes, in compliance with the approved plan, were installed at the landfill at the end of 2010 as described in the summary report entitled *Phased Assessment Plan and Upgrade of Monitoring Network*, dated March 2, 2011.

3.1.3 Surface Water

Analytical results for surface water samples collected from Profitt Branch are discussed below and are summarized in Table 2. The laboratory reports are included in Appendix B.

3.1.3.1 RCRA Metals

There were no metals detected in surface water samples at concentrations above the associated SWSLs. Similarly, no metals were present at concentrations above their applicable 2B Standards.

3.1.3.2 Appendix I VOCs

There were no VOCs detected in surface water samples at concentrations above the associated SWSLs. Similarly, no VOCs were present at concentrations above their applicable 2B Standards.

4.0 Summary and Discussion

The following discussion generally describes the site hydrogeology of the closed landfill and summarizes the results of the spring 2011 semiannual water quality monitoring event.

4.1 Site Hydrogeology

Groundwater was measured in four monitoring wells (MW-01-OLD, MW-02-OLD, MW-03-OLD and MW-04-OLD) at the closed landfill at a depth of approximately 6.20 feet bgs, 11.69 feet bgs, 39.34 feet bgs, and 42.64 feet bgs, respectively.

Monitoring wells MW-03-OLD and MW-04-OLD were installed east of the Edwards/Madison County property line near the top of a ridge within the landfill parcel. Monitoring wells, MW-01-OLD and MW-02-OLD are located in topographic drainages. Locations of monitoring wells at the site are not situated such that groundwater flow direction may be accurately calculated. However, within the unconsolidated soil, the shallow groundwater is interpreted to generally flow in directions that mimic topography, which is generally southward toward Profitt Branch. The site is situated on the southwest side of a knoll with an elevation of approximately 2,300 feet above mean sea level.

4.2 Groundwater Quality—Monitoring Wells

Barium was the only metal detected at a concentration above its SWSL (100 µg/L) in the groundwater samples collected from monitoring points associated with the landfill. The detected concentrations range from 195 µg/L (MW-01-OLD) to 871 µg/L (MW-03-OLD). In wells MW-03-OLD and MW-04-OLD, barium concentrations were present in excess of the 2L Standard of 700 µg/L (see Table 3). Barium was also detected in the groundwater sample, BG-SPRING-OLD at a concentration of 109 µg/L, which also exceeds the established SWSL.

Two VOCs, 1,4-dichlorobenzene and benzene, were detected in the groundwater samples collected from MW-03-OLD and MW-04-OLD at concentrations above their associated SWSLs, and their 2L Standards or GWPSs. The highest benzene concentration was found at 2.1 µg/L in well MW-03-OLD. The highest concentration of 1,4-dichlorobenzene was found at 6.7 µg/L in the well MW-04-OLD. There were two additional VOCs (chlorobenzene and ethylbenzene) that were detected at concentrations of 7.2 µg/L and 1.4 µg/L in MW-03-OLD and 6.4 µg/L (ethylbenzene) in MW-04-OLD that exceed their associated SWSLs but not their 2L standards or GWPSs.

4.3 Groundwater Quality—Domestic Wells

On April 19, 2011, Altamont collected groundwater samples from two domestic wells (DW-01 and DW-02). Barium was detected at concentrations above its SWSL (100 µg/L) in both groundwater samples. However, the detected concentration of barium did not exceed its respective 2L Standard (700 µg/L) in either of the samples.

Chromium was detected at concentration of 13.4 µg/L in DW-02, which exceeded its respective SWSL and 2L Standard of 10 µg/L. Domestic well DW-02 is no longer used as a source of drinking water for the Edwards residence as described above.

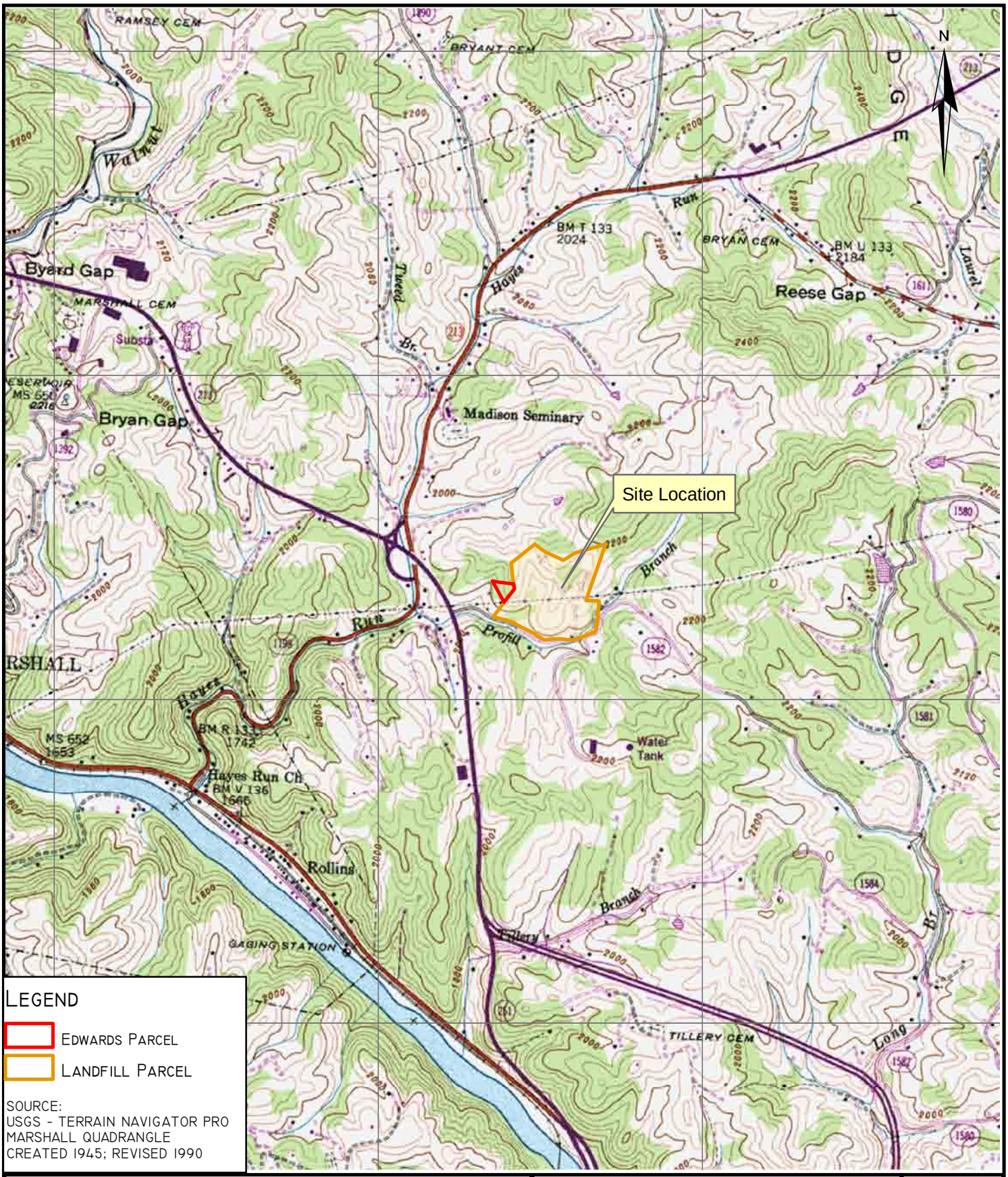
No VOCs were detected in the domestic groundwater samples at concentrations exceeding SWSLs, 2L Standards, or GWPSs.

4.4 Surface Water Quality

No metals or VOCs were detected at concentrations above their respective SWSLs in the surface water samples. Similarly, no metals or VOCs were detected at concentrations above their 2B Standards.

Altamont will continue to monitor metals and VOCs on a semiannual basis at the Madison County Closed Solid Waste Landfill. Madison County and Altamont will continue to work with the SWS in order to protect the health and safety of the public and the environment. The next sampling event is scheduled for October of 2011.

FIGURES



Legend

- Edwards Parcel
- Landfill Parcel

Source:
USGS - Terrain Navigator Pro
Marshall Quadrangle
Created 1945; Revised 1990

Altamont Environmental, Inc.
Engineering & Hydrogeology
231 Haywood Street, Asheville, NC 28801
tel.828.281.3350 fac.828.281.3351
www.altamontenvironmental.com

Site Location Map
Madison County
Closed MSW Landfill
Permit # 58-02

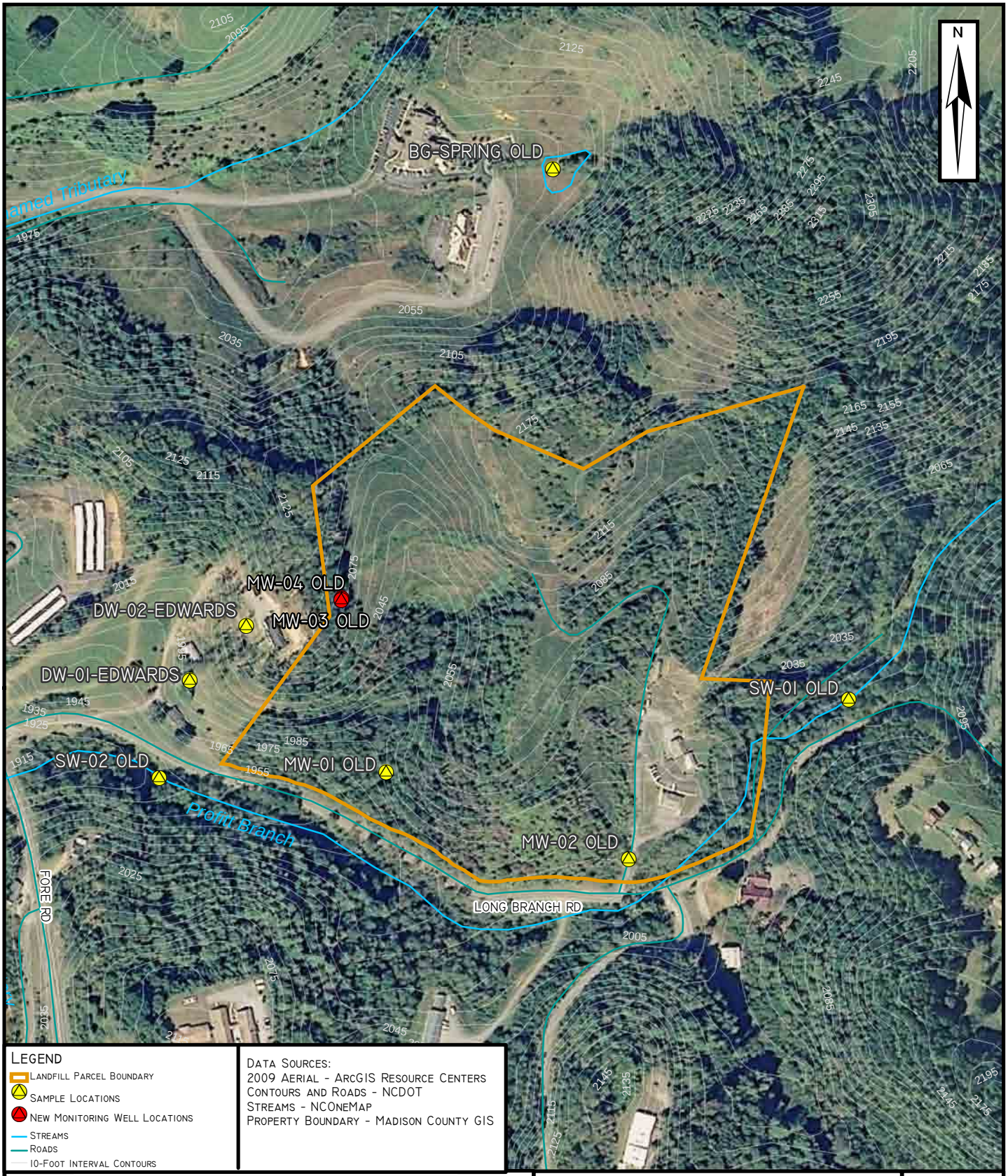
389 Long Branch Road
Marshall, NC 28753

Figure
1

Drawn by: Evan Yurkovich
Project Manager: Joel Lenk
Client: Madison County
Date: 3/26/2010; Update 05/18/2011

Scale
0 500 1,000 2,000 Feet

P:\Madison County\Figures\GIS\GIS User\MXDs\2011\Spring\5802-Figure 1-Site Location Map Closed LF.mxd



LEGEND

- Landfill Parcel Boundary
- Sample Locations
- New Monitoring Well Locations
- Streams
- Roads
- 10-Foot Interval Contours

Data Sources:
2009 Aerial - ArcGIS Resource Centers
Contours and Roads - NCDOT
Streams - NCOneMap
Property Boundary - Madison County GIS

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
231 Haywood Street, Asheville, NC 28801
tel.828.281.3350 fax.828.281.3351
www.altamontenvironmental.com

SAMPLE LOCATION MAP
MADISON COUNTY
CLOSED MSW LANDFILL
PERMIT # 58-02

389 LONG BRANCH ROAD
MARSHALL, NC 28753

Figure

2

Drawn By: Marta VanDussen
Project Manager: Joel Lenk
Client: Madison County
Date: 05/27/2010; Update 05/18/2011

Scale
0 100 200 400 Feet

P:\Madison County\Figures\GIS\GIS User\MXDs\2011\Spring\Figure 2-Sample Location Map Closed.mxd

TABLES

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

Groundwater Samples			
Sample Name	Date Collected	RCRA Metals	Appendix I VOCs
		EPA 6010 EPA 7470	EPA 8260
5802-MW01OLD	04/21/2011	X	X
5802-MW02OLD	04/21/2011	X	X
5802-MW03OLD	04/21/2011	X	X
5802-MW04OLD	04/21/2011	X	X
5802-BGSPRINGOLD	04/21/2011	X	X
5802-DW01	04/19/2021	X	X
5802-DW02	04/19/2011	X	X
5802-TRIPBLANK	04/19/2011		X
Surface Water Samples			
Sample Name	Date Collected	RCRA Metals	Appendix I VOCs
		EPA 6010 EPA 7470	EPA 8260
5802-SW01OLD	04/21/2011	X	X
5802-SW02OLD	04/21/2011	X	X

Notes:
VOCs = volatile organic compounds
RCRA Metals include the following: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW01OLD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7440-39-3	15	Barium	195	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7440-47-3	51	Chromium	2.5	ug/L	J	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-MW01OLD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW01OLD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-34-3	75	1,1-Dichloroethane	0.47	ug/L	J	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW01OLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW010LD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW010LD	7782-44-7	356	Dissolved Oxygen	3.64	mg/L							04/21/2011			
58-02	5802-MW010LD	SW336	336	Oxygen Reduction Potential	4.6	mV							04/21/2011			
58-02	5802-MW010LD	SW320	320	pH	6.05	SU							04/21/2011			
58-02	5802-MW010LD	SW323	323	Specific Conductivity	137	µS							04/21/2011			
58-02	5802-MW010LD	SW325	325	Temperature	10.87	°C							04/21/2011			
58-02	5802-MW010LD	SW330	330	Turbidity	469.0	NTU							04/21/2011			
58-02	5802-MW010LD	SW318	318	Depth to Water	6.2	ft TOC							04/21/2011			
58-02	5802-MW010LD	SW411	411	Total Well Depth	20.65	ft TOC										
58-02	5802-MW020LD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7440-39-3	15	Barium	57.1	ug/L	J	EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7440-47-3	51	Chromium	2	ug/L	U	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-MW020LD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW020LD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	75-34-3	75	1,1-Dichloroethane	0.72	ug/L	J	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW020LD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12

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Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW02OLD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW02OLD	7782-44-7	356	Dissolved Oxygen	3.19	mg/L							04/21/2011			
58-02	5802-MW02OLD	SW336	336	Oxygen Reduction Potential	18.1	mV							04/21/2011			
58-02	5802-MW02OLD	SW320	320	pH	6.63	SU							04/21/2011			
58-02	5802-MW02OLD	SW323	323	Specific Conductivity	229	µS							04/21/2011			
58-02	5802-MW02OLD	SW325	325	Temperature	14.01	°C							04/21/2011			
58-02	5802-MW02OLD	SW330	330	Turbidity	59.05	NTU							04/21/2011			
58-02	5802-MW02OLD	SW318	318	Depth to Water	11.69	ft TOC							04/21/2011			
58-02	5802-MW02OLD	SW411	411	Total Well Depth	43.48	ft TOC										
58-02	5802-MW030LD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7440-39-3	15	Barium	**871**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7440-47-3	51	Chromium	2	ug/L	U	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-MW030LD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW030LD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW030LD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW030LD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12

Table 2

Analytical Data and Field Parameters – April 2011

Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW03OLD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	106-46-7	71	1,4-Dichlorobenzene	**6.3**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	71-43-2	16	Benzene	**2.1**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	108-90-7	39	Chlorobenzene	7.2	ug/L		EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-00-3	41	Chloroethane	2.7	ug/L	*J*	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	100-41-4	110	Ethylbenzene	1.4	ug/L		EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	7782-44-7	356	Dissolved Oxygen	1.38	mg/L							04/21/2011			
58-02	5802-MW03OLD	SW336	336	Oxygen Reduction Potential	-50.0	mV							04/21/2011			

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Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW030LD	SW320	320	pH	6.51	SU							04/21/2011			
58-02	5802-MW030LD	SW323	323	Specific Conductivity	1366	µS							04/21/2011			
58-02	5802-MW030LD	SW325	325	Temperature	14.97	°C							04/21/2011			
58-02	5802-MW030LD	SW330	330	Turbidity	67.15	NTU							04/21/2011			
58-02	5802-MW030LD	SW318	318	Depth to Water	39.34	ft TOC							04/21/2011			
58-02	5802-MW030LD	SW411	411	Total Well Depth	52.9	ft TOC										
58-02	5802-MW040LD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7440-39-3	15	Barium	**725**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7440-47-3	51	Chromium	5.5	ug/L	*J*	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-MW040LD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW040LD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-34-3	75	1,1-Dichloroethane	0.56	ug/L	J	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	J	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	106-46-7	71	1,4-Dichlorobenzene	**6.7**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	71-43-2	16	Benzene	**1.7**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	108-90-7	39	Chlorobenzene	6.4	ug/L		EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	75-00-3	41	Chloroethane	3.2	ug/L	*J*	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW040LD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW04OLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	7782-44-7	356	Dissolved Oxygen	2.58	mg/L							04/21/2011			
58-02	5802-MW04OLD	SW336	336	Oxygen Reduction Potential	26.4	mV							04/21/2011			
58-02	5802-MW04OLD	SW320	320	pH	6.39	SU							04/21/2011			
58-02	5802-MW04OLD	SW323	323	Specific Conductivity	1069	µS							04/21/2011			
58-02	5802-MW04OLD	SW325	325	Temperature	14.88	°C							04/21/2011			
58-02	5802-MW04OLD	SW330	330	Turbidity	143.7	NTU							04/21/2011			
58-02	5802-MW04OLD	SW318	318	Depth to Water	42.64	ft TOC							04/21/2011			
58-02	5802-MW04OLD	SW411	411	Total Well Depth	94.50	ft TOC										
58-02	5802-BGSPRINGOLD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7440-39-3	15	Barium	109	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7440-47-3	51	Chromium	3.3	ug/L	J	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-BGSPRINGOLD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-BGSPRINGOLD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12

Table 2
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Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-BGSPRINGOLD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	7782-44-7	356	Dissolved Oxygen	1.57	mg/L							04/21/2011			
58-02	5802-BGSPRINGOLD	SW336	336	Oxygen Reduction Potential	13.0	mV							04/21/2011			
58-02	5802-BGSPRINGOLD	SW320	320	pH	5.96	SU							04/21/2011			
58-02	5802-BGSPRINGOLD	SW323	323	Specific Conductivity	159	µS							04/21/2011			
58-02	5802-BGSPRINGOLD	SW325	325	Temperature	11.70	°C							04/21/2011			
58-02	5802-BGSPRINGOLD	SW330	330	Turbidity	46.46	NTU							04/21/2011			
58-02	5802-BGSPRINGOLD	SW318	318	Depth to Water	4.19	ft TOC							04/21/2011			
58-02	5802-BGSPRINGOLD	SW411	411	Total Well Depth	14.25	ft TOC										
58-02	5802-SW01OLD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW01OLD	7440-39-3	15	Barium	82.5	ug/L	J	EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW01OLD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW01OLD	7440-47-3	51	Chromium	2	ug/L	U	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-SW010LD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW010LD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-SW010LD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW010LD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW010LD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12

Table 2

Analytical Data and Field Parameters – April 2011

Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-SW010LD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW010LD	7782-44-7	356	Dissolved Oxygen	4.69	mg/L							04/21/2011			
58-02	5802-SW010LD	SW336	336	Oxygen Reduction Potential	-28.9	mV							04/21/2011			
58-02	5802-SW010LD	SW320	320	pH	7.42	SU							04/21/2011			
58-02	5802-SW010LD	SW323	323	Specific Conductivity	259	µS							04/21/2011			
58-02	5802-SW010LD	SW325	325	Temperature	14.23	°C							04/21/2011			
58-02	5802-SW010LD	SW330	330	Turbidity	6.17	NTU							04/21/2011			
58-02	5802-SW020LD	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7440-39-3	15	Barium	53.7	ug/L	J	EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7440-47-3	51	Chromium	2	ug/L	U	EPA 6010	2	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/21/2011	05/03/2011	05/05/2011	40
58-02	5802-SW020LD	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-SW020LD	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW020LD	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/21/2011		04/30/2011	12

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-SW02OLD	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-SW02OLD	7782-44-7	356	Dissolved Oxygen	3.82	mg/L							04/21/2011			
58-02	5802-SW02OLD	SW336	336	Oxygen Reduction Potential	19.9	mV							04/21/2011			
58-02	5802-SW02OLD	SW320	320	pH	7.45	SU							04/21/2011			
58-02	5802-SW02OLD	SW323	323	Specific Conductivity	182	µS							04/21/2011			
58-02	5802-SW02OLD	SW325	325	Temperature	14.31	°C							04/21/2011			
58-02	5802-SW02OLD	SW330	330	Turbidity	0.57	NTU							04/21/2011			
58-02	5802-DW01	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7440-39-3	15	Barium	180	ug/L		EPA 6010	2.5	5.0	100	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7440-47-3	51	Chromium	2	ug/L	U	EPA 6010	2	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/19/2011	05/03/2011	05/05/2011	40
58-02	5802-DW01	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/19/2011		04/30/2011	12

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

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58-02	5802-DW01	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW01	7782-44-7	356	Dissolved Oxygen	3.29	mg/L							04/19/2011			
58-02	5802-DW01	SW336	336	Oxygen Reduction Potential	24.4	mV							04/19/2011			
58-02	5802-DW01	SW320	320	pH	6.17	SU							04/19/2011			
58-02	5802-DW01	SW323	323	Specific Conductivity	185	mS							04/19/2011			
58-02	5802-DW01	SW325	325	Temperature	15.55	°C							04/19/2011			
58-02	5802-DW01	SW330	330	Turbidity	0.00	NTU							04/19/2011			
58-02	5802-DW02	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7440-39-3	15	Barium	149	ug/L		EPA 6010	2.5	5.0	100	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	04/19/2011	04/26/2011	04/27/2011	40

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-DW02	7440-47-3	51	Chromium	**13.4**	ug/L		EPA 6010	2	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7439-97-6	132	Mercury	0.1	ug/L	U	EPA 7470	0.1	0.20	0.2	1	04/19/2011	05/03/2011	05/05/2011	40
58-02	5802-DW02	7782-49-2	183	Selenium	5	ug/L	U	EPA 6010	5	10.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7440-22-4	184	Silver	2.5	ug/L	U	EPA 6010	2.5	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	78-93-3	141	2-Butanone (MEK)	77.6	ug/L	J	EPA 8260	0.96	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	67-64-1	3	Acetone	61.6	ug/L	J	EPA 8260	2.2	25.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	127-18-4	192	Tetrachloroethene	0.55	ug/L	J	EPA 8260	0.46	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/19/2011		04/30/2011	12

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Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-DW02	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-DW02	7782-44-7	356	Dissolved Oxygen	2.52	mg/L							04/19/2011			
58-02	5802-DW02	SW336	336	Oxygen Reduction Potential	31.8	mV							04/19/2011			
58-02	5802-DW02	SW320	320	pH	6.30	SU							04/19/2011			
58-02	5802-DW02	SW323	323	Specific Conductivity	176	mS							04/19/2011			
58-02	5802-DW02	SW325	325	Temperature	15.42	°C							04/19/2011			
58-02	5802-DW02	SW330	330	Turbidity	14.21	NTU							04/19/2011			
58-02	5802-TRIPBLANK	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	04/19/2011		04/30/2011	12

Table 2
Analytical Data and Field Parameters – April 2011
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-TRIPBLANK	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	110-57-6	73	trans-1,4-Dichloro-2-butene	1	ug/L	U	EPA 8260	1	1.0	100	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	04/19/2011		04/30/2011	12
58-02	5802-TRIPBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	04/19/2011		04/30/2011	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).
3. "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.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.
6. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
7. 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 assigned by the laboratory for parameters detected at estimated concentrations above the MDL but below the laboratory's Method Reporting Limit (MRL) and the SWSL. An italicized *J* -flag is a data qualifier added by Altamont per DENR requirement to reflect a detected concentration that is greater than the MDL and the laboratory's MRL but less than the SWSL.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect 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. 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).
13. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).
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 March 18, 2011).
15. Depth to water was measured from top of casing (TOC).

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

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
58-02	5802-MW01OLD	7440-39-3	15	Barium	195	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW03OLD	7440-39-3	15	Barium	**871**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW03OLD	106-46-7	71	1,4-Dichlorobenzene	**6.3**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	71-43-2	16	Benzene	**2.1**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	108-90-7	39	Chlorobenzene	7.2	ug/L		EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-MW03OLD	100-41-4	110	Ethylbenzene	1.4	ug/L		EPA 8260	0.3	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	7440-39-3	15	Barium	**725**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-MW04OLD	106-46-7	71	1,4-Dichlorobenzene	**6.7**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	71-43-2	16	Benzene	**1.7**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011		04/30/2011	12
58-02	5802-MW04OLD	108-90-7	39	Chlorobenzene	6.4	ug/L		EPA 8260	0.23	1.0	3	1	04/21/2011		04/30/2011	12
58-02	5802-BGSPRINGOLD	7440-39-3	15	Barium	109	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/26/2011	04/27/2011	40
58-02	5802-DW01	7440-39-3	15	Barium	180	ug/L		EPA 6010	2.5	5.0	100	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7440-39-3	15	Barium	149	ug/L		EPA 6010	2.5	5.0	100	1	04/19/2011	04/26/2011	04/27/2011	40
58-02	5802-DW02	7440-47-3	51	Chromium	**13.4**	ug/L		EPA 6010	2	5.0	10	1	04/19/2011	04/26/2011	04/27/2011	40

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).
3. "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.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.
6. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
7. 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 assigned by the laboratory for parameters detected at estimated concentrations above the MDL but below the laboratory's Method Reporting Limit (MRL) and the SWSL. An italicized *J* -flag is a data qualifier added by Altamont per DENR requirement to reflect a detected concentration that is greater than the MDL and the laboratory's MRL but less than the SWSL.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect 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. 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).
13. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).
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 March 18, 2011).
15. Depth to water was measured from top of casing (TOC).

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

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	WATER QUALITY STANDARD	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	ANALYSIS DATE	CAUSE AND SIGNIFICANCE
GROUNDWATER SAMPLES - 2L STANDARD OR GWPS (ug/L)																
58-02	5802-MW030LD	7440-39-3	15	Barium	700	**871**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/27/2011	Possibly naturally occurring. Turbidity of sample at 67.15 NTU.
58-02	5802-MW030LD	106-46-7	71	1,4-Dichlorobenzene	6	**6.3**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011	04/30/2011	Anthropogenic.
58-02	5802-MW030LD	71-43-2	16	Benzene	1	**2.1**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011	04/30/2011	
58-02	5802-MW040LD	7440-39-3	15	Barium	700	**725**	ug/L		EPA 6010	2.5	5.0	100	1	04/21/2011	04/27/2011	Possibly naturally occurring. Turbidity of sample at 143.7 NTU.
58-02	5802-MW040LD	106-46-7	71	1,4-Dichlorobenzene	6	**6.7**	ug/L		EPA 8260	0.33	1.0	1	1	04/21/2011	04/30/2011	Anthropogenic.
58-02	5802-MW040LD	71-43-2	16	Benzene	1	**1.7**	ug/L		EPA 8260	0.25	1.0	1	1	04/21/2011	04/30/2011	
58-02	5802-DW02	7440-47-3	51	Chromium	10	**13.4**	ug/L		EPA 6010	2	5.0	10	1	04/19/2011	04/27/2011	Possibly naturally occurring. Turbidity of sample at 14.21 NTU.

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).
3. "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.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.
6. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
7. 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 assigned by the laboratory for parameters detected at estimated concentrations above the MDL but below the laboratory's Method Reporting Limit (MRL) and the SWSL. An italicized *J*-flag is a data qualifier added by Altamont per DENR SWS requirement to reflect a detected concentration that is greater than the MDL and the laboratory's MRL but less than the SWSL.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect 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. 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).
13. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).
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 March 18, 2011).
15. Depth to water was measured from top of casing (TOC).

APPENDICES

APPENDIX A

SAMPLING LOGS
AND
EQUIPMENT CALIBRATION DATA SHEETS

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

Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/21/2014
WEATHER: Sunny 70°
SAMPLE TIME: 1523

WELL NUMBER: MW-01-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 20.65
WATER LEVEL IN FEET (WL): 6.20
LENGTH OF WATER COLUMN : 14.45 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.46 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 7.37 GALLONS
ACTUAL VOLUME PURGED: 7.50 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	1509	initial	12.65	103	4.16	6.15	6.3	8.51	
2	1513	2.50	10.92	125	3.63	5.89	-37.8	155.7	
3	1518	5.0	10.93	141	3.49	6.00	-81.8	215.8	
4	1523	7.5	10.87	137	3.64	6.05	4.6	469.0	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: Date: 4/21/14

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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TEL.828.281.3350 FAX.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 6/21/2011
WEATHER: Sunny 65°
SAMPLE TIME: 1440

WELL NUMBER: MW-02-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Bailed well dry after purging 9 gallons, allowed to recharge and then collected sample.

WELL DEPTH IN FEET (WD): 43.48
WATER LEVEL IN FEET (WL): 11.69
LENGTH OF WATER COLUMN: 31.79 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 5.40 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 16.21 GALLONS
ACTUAL VOLUME PURGED: 9.0 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	1419	initial	14.51	234	3.93	6.66	-8.4	0.00	
2	1430	5.50	13.86	231	3.57	6.67	13.3	45.64	
3	1440	9.0	14.01	229	3.19	6.63	18.1	59.05	
4									
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 6/21/11

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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WWW.ALTAMONTENVIRONMENTAL.COM

Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/21/2011
WEATHER: Sunny 65°
SAMPLE TIME: 1307

WELL NUMBER: MW-03-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 52.9
WATER LEVEL IN FEET (WL): 39.34
LENGTH OF WATER COLUMN : 13.56 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.31 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.92 GALLONS
ACTUAL VOLUME PURGED: 7.00 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	1249	initial	15.67	1281	1.47	6.53	-64.4	0.00	
2	1255	2.50	15.33	1353	1.32	6.52	-50.5	96.11	
3	1301	5.0	15.22	1364	1.37	6.51	-52.9	70.52	
4	1307	7.0	14.97	1366	1.38	6.51	-50.0	67.15	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: [signature] Date: 4/21/11

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.

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

Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/21/2011
WEATHER: Sunny 65°
SAMPLE TIME: 1345

WELL NUMBER: MW-04-OLD
WELL DIAMETER: 8"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Bailed well dry after one well volume (9 gal) allowed well to recharge, then collected sample

WELL DEPTH IN FEET (WD): 94.5
WATER LEVEL IN FEET (WL): 42.64
LENGTH OF WATER COLUMN: 51.86 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 8.82 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 26.45 GALLONS
ACTUAL VOLUME PURGED: 9.0 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	1300	initial	16.04	1000	1.25	6.44	23.2	0.00	
2	1345	9.0	14.88	1069	2.58	6.39	26.4	143.7	
3									
4									
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: [signature] Date: 4/21/11

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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Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/21/2011
WEATHER: Cloudy 60°
SAMPLE TIME: 1150

WELL NUMBER: BG-SPRING-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 14.25
WATER LEVEL IN FEET (WL): 4.19
LENGTH OF WATER COLUMN: 10.06 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.71 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.13 GALLONS
ACTUAL VOLUME PURGED: 5.25 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	1140	initial	12.93	132	3.07	6.16	23.4	26.05	
2	1143	1.75	12.77	125	1.99	5.96	23.0	31.0	
3	1146	3.50	12.34	134	1.85	5.93	20.1	72.78	
4	1150	5.25	11.70	159	1.57	5.96	13.0	46.46	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: Date: 4/21/11

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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Surface Water Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
DATE: 4/21/2011
PROJECT NUMBER:2313.1202
WEATHER: Sunny 70°
SAMPLING PERSONNEL: E. Yurkovich

SAMPLE NAME: SW-01-OLD

COMMENTS: Upstream Surfacewater Sample

Sampletime: 1452

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
1452	14.23	259	4.69	7.42	-28.9	6.17	

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

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 4/21/1

Notes: °C = degrees Celsius
mS = 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: Madison Co. Closed Landfill
DATE: 4/21/2011
PROJECT NUMBER:2313.1202
WEATHER: Cloudy 60°
SAMPLING PERSONNEL: E. Yurkovich

SAMPLE NAME: SW-02-OLD

COMMENTS: Downstream surfacewater sample
- collected across from Edward's Residence

Sampletime : 1208

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
1208	14.31	182	3.82	7.45	19.9	0.57	

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

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 4/21/11

Notes: °C = degrees Celsius
mS = 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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Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/19/2011
WEATHER: Sunny 65°
SAMPLE TIME: 1534

WELL NUMBER: DW-01
WELL DIAMETER: —
TYPE OF CASING: —
MEASURING POINT: —
FLUSH MOUNT / STICK-UP
COMMENTS: Edwards domestic well, collected from spigot in the basement

WELL DEPTH IN FEET (WD): —
WATER LEVEL IN FEET (WL): —
LENGTH OF WATER COLUMN: — FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: — GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: — GALLONS
ACTUAL VOLUME PURGED: 30 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	1524	initial	19.95	190	3.05	6.41	5.0	16.93	
2	1527	10	16.27	184	3.52	6.30	19.6	0.00	
3	1530	20	15.49	184	3.47	6.22	25.9	0.00	
4	1534	30	15.55	185	3.29	6.17	24.4	0.00	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: NA PAD: NA LOCK: NA VEGETATION: NA ACCESS: Good

Sampling Personnel Signature: [signature] Date: 4/19/11

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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Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: E. Yurkovich

DATE: 4/19/2011
WEATHER: Sunny 65°
SAMPLE TIME: 1510

WELL NUMBER: DW-02
WELL DIAMETER: —
TYPE OF CASING: —
MEASURING POINT: —
FLUSH MOUNT / STICK-UP
COMMENTS: Sample collected from spigot at wellhead

WELL DEPTH IN FEET (WD): —
WATER LEVEL IN FEET (WL): —
LENGTH OF WATER COLUMN : — FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: — GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: — GALLONS
ACTUAL VOLUME PURGED: 30 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	1457	initial	15.63	176	2.16	6.40	13.6	6.23	
2	1502	10	14.85	175	2.47	6.42	29.2	32.09	
3	1506	20	15.93	177	2.17	6.35	31.2	34.56	
4	1510	30	16.42	176	2.52	6.30	31.8	14.21	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: NA VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: Date: 4/19/11

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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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Madison Co. Closed Landfill
Project Number: 2313
Project Location: Marshall, NC

Calibration Documentation
Person Conducting Calibration: E. Yurkovich
Date of Calibration: 4/21/11
Date of Field Measurements: 4/21/11

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	4/21/2011
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
August 2011	200601045	Initial: 0.05	Initial: 9.88	Initial: 1024
		Cal: 0.02	Cal: 10.03	Cal: 985.9
		Time: 729	Time: 730	Time: 731

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 20.10	Cal: 8.44	mmHg: 708.9	Time: 729			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 6.90	pHmV:	Cal: 7.06	pHmV: 7	Time: 716		June 2012
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.13	pHmV:	Cal: 4.00	pHmV:	Time: 719		Sept 2011
pH 10 S.U. *report to 0.1 S.U.*	Initial: 9.78	pHmV:	Cal: 9.99	pHmV:	Time: 723		Sept 2012
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 729	Meas: 6.99	Mid Day Time:	Check:	PM Time:	Check:	June 2012
Spec. Cond. 447/84/23 mS**	Initial: 464	Cal: 447	Time: 714				July 2011
QC* 84 mS	AM Time: 727	Meas: 85	Mid Day Time:	Check:	PM Time:	Check:	May 2011
ORP 200 mV	Initial: 199.2	Cal: 200.0	Time: 725				June 2011

Comments:

Signature: [signature] Date: 4/21/2011

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 location.

APPENDIX B

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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

May 09, 2011

Mr. Joel Lenk
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Madison Co. Closed LF
Pace Project No.: 9292579

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2011. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

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205 East Meadow Road - Suite A
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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CERTIFICATIONS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
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 #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
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
Virginia Certification #: 00072
West Virginia Certification #: 356

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(704)875-9092

SAMPLE SUMMARY

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9292579001	**MW-01-OLD**	Water	04/21/11 15:23	04/21/11 16:25
9292579002	**MW-02-OLD**	Water	04/21/11 14:40	04/21/11 16:25
9292579003	**MW-03-OLD**	Water	04/21/11 13:07	04/21/11 16:25
9292579004	**MW-04-OLD**	Water	04/21/11 13:45	04/21/11 16:25
9292579005	**BG-SPRING-OLD**	Water	04/21/11 11:50	04/21/11 16:25
9292579006	**SW-01-OLD**	Water	04/21/11 14:52	04/21/11 16:25
9292579007	**SW-02-OLD**	Water	04/21/11 12:08	04/21/11 16:25

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9292579001	**MW-01-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579002	**MW-02-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579003	**MW-03-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579004	**MW-04-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579005	**BG-SPRING-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579006	**SW-01-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292579007	**SW-02-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-01-OLD **Lab ID: 9292579001** Collected: 04/21/11 15:23 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 17:30	7440-38-2	
Barium	**195**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:30	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 17:30	7440-43-9	
Chromium	**2.5J**	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 17:30	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 17:30	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 17:30	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:30	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:24	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 08:34	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 08:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 08:34	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 08:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 08:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 08:34	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 08:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 08:34	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 08:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 08:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 08:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 08:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 08:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 08:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 08:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 08:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 08:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 08:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 08:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 08:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 08:34	110-57-6	
1,1-Dichloroethane	**0.47J**	ug/L	1.0	0.32	1		04/30/11 08:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 08:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 08:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 08:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 08:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 08:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 08:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 08:34	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 08:34	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 08:34	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 08:34	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 08:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 08:34	75-09-2	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-01-OLD **Lab ID: 9292579001** Collected: 04/21/11 15:23 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 08:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 08:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 08:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 08:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 08:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 08:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 08:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 08:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 08:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 08:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 08:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 08:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 08:34	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 08:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 08:34	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/30/11 08:34	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		04/30/11 08:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		04/30/11 08:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/30/11 08:34	2037-26-5	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-02-OLD **Lab ID: 9292579002** Collected: 04/21/11 14:40 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 17:44	7440-38-2	
Barium	**57.1**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:44	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 17:44	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 17:44	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 17:44	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 17:44	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:44	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:32	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 09:00	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 09:00	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 09:00	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 09:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 09:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 09:00	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 09:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 09:00	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 09:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 09:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 09:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 09:00	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 09:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 09:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 09:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 09:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 09:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 09:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 09:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 09:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 09:00	110-57-6	
1,1-Dichloroethane	**0.72J**	ug/L	1.0	0.32	1		04/30/11 09:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 09:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 09:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 09:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 09:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 09:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 09:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 09:00	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 09:00	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 09:00	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 09:00	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 09:00	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 09:00	75-09-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-02-OLD **Lab ID: 9292579002** Collected: 04/21/11 14:40 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 09:00	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 09:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 09:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 09:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 09:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 09:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 09:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 09:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 09:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 09:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 09:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 09:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 09:00	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 09:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 09:00	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/30/11 09:00	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		04/30/11 09:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		04/30/11 09:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/30/11 09:00	2037-26-5	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-03-OLD **Lab ID: 9292579003** Collected: 04/21/11 13:07 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 17:48	7440-38-2	
Barium	**871**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:48	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 17:48	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 17:48	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 17:48	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 17:48	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:48	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:40	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 09:25	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 09:25	107-13-1	
Benzene	**2.1**	ug/L	1.0	0.25	1		04/30/11 09:25	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 09:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 09:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 09:25	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 09:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 09:25	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 09:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 09:25	56-23-5	
Chlorobenzene	**7.2**	ug/L	1.0	0.23	1		04/30/11 09:25	108-90-7	
Chloroethane	**2.7**	ug/L	1.0	0.54	1		04/30/11 09:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 09:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 09:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 09:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 09:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 09:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 09:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 09:25	95-50-1	
1,4-Dichlorobenzene	**6.3**	ug/L	1.0	0.33	1		04/30/11 09:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 09:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 09:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 09:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 09:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 09:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 09:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 09:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 09:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 09:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 09:25	108-20-3	
Ethylbenzene	**1.4**	ug/L	1.0	0.30	1		04/30/11 09:25	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 09:25	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 09:25	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 09:25	75-09-2	

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Eden, NC 27288
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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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-03-OLD **Lab ID: 9292579003** Collected: 04/21/11 13:07 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 09:25	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 09:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 09:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 09:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 09:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 09:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 09:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 09:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 09:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 09:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 09:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 09:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 09:25	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 09:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 09:25	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/30/11 09:25	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		04/30/11 09:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		04/30/11 09:25	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/30/11 09:25	2037-26-5	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-04-OLD **Lab ID: 9292579004** Collected: 04/21/11 13:45 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 17:52	7440-38-2	
Barium	**725**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:52	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 17:52	7440-43-9	
Chromium	**5.5**	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 17:52	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 17:52	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 17:52	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:52	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:43	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 09:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 09:50	107-13-1	
Benzene	**1.7**	ug/L	1.0	0.25	1		04/30/11 09:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 09:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 09:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 09:50	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 09:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 09:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 09:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 09:50	56-23-5	
Chlorobenzene	**6.4**	ug/L	1.0	0.23	1		04/30/11 09:50	108-90-7	
Chloroethane	**3.2**	ug/L	1.0	0.54	1		04/30/11 09:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 09:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 09:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 09:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 09:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 09:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 09:50	74-95-3	
1,2-Dichlorobenzene	**0.30J**	ug/L	1.0	0.30	1		04/30/11 09:50	95-50-1	
1,4-Dichlorobenzene	**6.7**	ug/L	1.0	0.33	1		04/30/11 09:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 09:50	110-57-6	
1,1-Dichloroethane	**0.56J**	ug/L	1.0	0.32	1		04/30/11 09:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 09:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 09:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 09:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 09:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 09:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 09:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 09:50	10061-02-6	
Diisopropyl ether	**0.29J**	ug/L	1.0	0.12	1		04/30/11 09:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 09:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 09:50	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 09:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 09:50	75-09-2	

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Eden, NC 27288
(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: MW-04-OLD **Lab ID: 9292579004** Collected: 04/21/11 13:45 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 09:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 09:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 09:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 09:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 09:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 09:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 09:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 09:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 09:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 09:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 09:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 09:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 09:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 09:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 09:50	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/30/11 09:50	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		04/30/11 09:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		04/30/11 09:50	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/30/11 09:50	2037-26-5	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: BG-SPRING-OLD **Lab ID: 9292579005** Collected: 04/21/11 11:50 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 17:57	7440-38-2	
Barium	**109**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:57	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 17:57	7440-43-9	
Chromium	**3.3J**	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 17:57	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 17:57	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 17:57	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 17:57	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:51	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 10:16	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 10:16	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 10:16	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 10:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 10:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 10:16	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 10:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 10:16	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 10:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 10:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 10:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 10:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 10:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 10:16	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 10:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 10:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 10:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 10:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 10:16	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 10:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 10:16	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 10:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 10:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 10:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 10:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 10:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 10:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 10:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 10:16	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 10:16	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 10:16	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 10:16	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 10:16	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 10:16	75-09-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: BG-SPRING-OLD **Lab ID: 9292579005** Collected: 04/21/11 11:50 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 10:16	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 10:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 10:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 10:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 10:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 10:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 10:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 10:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 10:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 10:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 10:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 10:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 10:16	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 10:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 10:16	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/30/11 10:16	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		04/30/11 10:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		04/30/11 10:16	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/30/11 10:16	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: SW-01-OLD **Lab ID: 9292579006** Collected: 04/21/11 14:52 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 18:00	7440-38-2	
Barium	**82.5**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:00	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 18:00	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 18:00	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 18:00	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 18:00	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:00	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:53	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 10:41	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 10:41	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 10:41	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 10:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 10:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 10:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 10:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 10:41	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 10:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 10:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 10:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 10:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 10:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 10:41	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 10:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 10:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 10:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 10:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 10:41	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 10:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 10:41	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 10:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 10:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 10:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 10:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 10:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 10:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 10:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 10:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 10:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 10:41	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 10:41	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 10:41	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 10:41	75-09-2	

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Eden, NC 27288
(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: SW-01-OLD **Lab ID: 9292579006** Collected: 04/21/11 14:52 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 10:41	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 10:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 10:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 10:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 10:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 10:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 10:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 10:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 10:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 10:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 10:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 10:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 10:41	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 10:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 10:41	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/30/11 10:41	460-00-4	
Dibromofluoromethane (S)	125	%	70-130		1		04/30/11 10:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		04/30/11 10:41	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/30/11 10:41	2037-26-5	

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Eden, NC 27288
(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: SW-02-OLD **Lab ID: 9292579007** Collected: 04/21/11 12:08 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 18:04	7440-38-2	
Barium	**53.7**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:04	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 18:04	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 18:04	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 18:04	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 18:04	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:04	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:56	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 11:06	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 11:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 11:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 11:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 11:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 11:06	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 11:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 11:06	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 11:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 11:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 11:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 11:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 11:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 11:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 11:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 11:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 11:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 11:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 11:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 11:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 11:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 11:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 11:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 11:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 11:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 11:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 11:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 11:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 11:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 11:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 11:06	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 11:06	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 11:06	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 11:06	75-09-2	

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Eden, NC 27288
(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

Sample: SW-02-OLD **Lab ID: 9292579007** Collected: 04/21/11 12:08 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 11:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 11:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 11:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 11:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 11:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 11:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 11:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 11:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 11:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 11:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 11:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 11:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 11:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 11:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 11:06	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/30/11 11:06	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		04/30/11 11:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		04/30/11 11:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/30/11 11:06	2037-26-5	

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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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

QC Batch: MPRP/8254 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

METHOD BLANK: 596145 Matrix: Water
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	04/27/11 16:58	
Barium	ug/L	ND	5.0	04/27/11 16:58	
Cadmium	ug/L	ND	1.0	04/27/11 16:58	
Chromium	ug/L	ND	5.0	04/27/11 16:58	
Lead	ug/L	ND	5.0	04/27/11 16:58	
Selenium	ug/L	ND	10.0	04/27/11 16:58	
Silver	ug/L	ND	5.0	04/27/11 16:58	

LABORATORY CONTROL SAMPLE: 596146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	486	97	80-120	
Barium	ug/L	500	492	98	80-120	
Cadmium	ug/L	500	502	100	80-120	
Chromium	ug/L	500	499	100	80-120	
Lead	ug/L	500	499	100	80-120	
Selenium	ug/L	500	487	97	80-120	
Silver	ug/L	250	244	98	80-120	

MATRIX SPIKE SAMPLE: 596275

Parameter	Units	9292480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	487	97	75-125	
Barium	ug/L	45.4	500	515	94	75-125	
Cadmium	ug/L	ND	500	480	96	75-125	
Chromium	ug/L	ND	500	477	95	75-125	
Lead	ug/L	ND	500	475	95	75-125	
Selenium	ug/L	ND	500	479	96	75-125	
Silver	ug/L	ND	250	240	96	75-125	

SAMPLE DUPLICATE: 596281

Parameter	Units	9292480002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	49.8	49.3	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	

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Eden, NC 27288
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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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

SAMPLE DUPLICATE: 596281

Parameter	Units	9292480002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

QC Batch: MERP/3457 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

METHOD BLANK: 600008 Matrix: Water
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/05/11 14:19	

LABORATORY CONTROL SAMPLE: 600009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 600010 600011

Parameter	Units	9292579001 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	2.0	1.7	81	68	75-125	18	25	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 600012 600013

Parameter	Units	9292579002 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	2.1	2.1	82	83	75-125	1	25	

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QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

QC Batch: MSV/15020 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

METHOD BLANK: 598697 Matrix: Water
Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,1-Dichloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,1-Dichloroethene	ug/L	ND	1.0	04/30/11 02:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/30/11 02:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/30/11 02:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/30/11 02:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/30/11 02:39	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/11 02:39	
1,2-Dichloropropane	ug/L	ND	1.0	04/30/11 02:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/11 02:39	
2-Butanone (MEK)	ug/L	ND	5.0	04/30/11 02:39	
2-Hexanone	ug/L	ND	5.0	04/30/11 02:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/30/11 02:39	
Acetone	ug/L	ND	25.0	04/30/11 02:39	
Acrylonitrile	ug/L	ND	10.0	04/30/11 02:39	
Benzene	ug/L	ND	1.0	04/30/11 02:39	
Bromochloromethane	ug/L	ND	1.0	04/30/11 02:39	
Bromodichloromethane	ug/L	ND	1.0	04/30/11 02:39	
Bromoform	ug/L	ND	1.0	04/30/11 02:39	
Bromomethane	ug/L	ND	2.0	04/30/11 02:39	
Carbon disulfide	ug/L	ND	2.0	04/30/11 02:39	
Carbon tetrachloride	ug/L	ND	1.0	04/30/11 02:39	
Chlorobenzene	ug/L	ND	1.0	04/30/11 02:39	
Chloroethane	ug/L	ND	1.0	04/30/11 02:39	
Chloroform	ug/L	ND	1.0	04/30/11 02:39	
Chloromethane	ug/L	ND	1.0	04/30/11 02:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/11 02:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/30/11 02:39	
Dibromochloromethane	ug/L	ND	1.0	04/30/11 02:39	
Dibromomethane	ug/L	ND	1.0	04/30/11 02:39	
Diisopropyl ether	ug/L	ND	1.0	04/30/11 02:39	
Ethylbenzene	ug/L	ND	1.0	04/30/11 02:39	
Iodomethane	ug/L	ND	5.0	04/30/11 02:39	
m&p-Xylene	ug/L	ND	2.0	04/30/11 02:39	
Methylene Chloride	ug/L	ND	1.0	04/30/11 02:39	
o-Xylene	ug/L	ND	1.0	04/30/11 02:39	
Styrene	ug/L	ND	1.0	04/30/11 02:39	
Tetrachloroethene	ug/L	ND	1.0	04/30/11 02:39	
Toluene	ug/L	ND	1.0	04/30/11 02:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/11 02:39	

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

METHOD BLANK: 598697 Matrix: Water

Associated Lab Samples: 9292579001, 9292579002, 9292579003, 9292579004, 9292579005, 9292579006, 9292579007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/30/11 02:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/30/11 02:39	
Trichloroethene	ug/L	ND	1.0	04/30/11 02:39	
Trichlorofluoromethane	ug/L	ND	1.0	04/30/11 02:39	
Vinyl acetate	ug/L	ND	2.0	04/30/11 02:39	
Vinyl chloride	ug/L	ND	1.0	04/30/11 02:39	
1,2-Dichloroethane-d4 (S)	%	118	70-130	04/30/11 02:39	
4-Bromofluorobenzene (S)	%	94	70-130	04/30/11 02:39	
Dibromofluoromethane (S)	%	118	70-130	04/30/11 02:39	
Toluene-d8 (S)	%	101	70-130	04/30/11 02:39	

LABORATORY CONTROL SAMPLE: 598698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	70-130	
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	70-130	
1,1,2-Trichloroethane	ug/L	50	53.4	107	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethene	ug/L	50	55.7	111	70-132	
1,2,3-Trichloropropane	ug/L	50	50.5	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	70-130	
1,2-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,2-Dichloroethane	ug/L	50	50.5	101	70-130	
1,2-Dichloropropane	ug/L	50	50.5	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.7	99	70-130	
2-Butanone (MEK)	ug/L	100	102	102	70-145	
2-Hexanone	ug/L	100	101	101	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	110	110	50-175	
Acrylonitrile	ug/L	250	262	105	70-143	
Benzene	ug/L	50	50.8	102	70-130	
Bromochloromethane	ug/L	50	51.0	102	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	57.0	114	70-130	
Bromomethane	ug/L	50	48.4	97	54-130	
Carbon disulfide	ug/L	50	51.1	102	70-131	
Carbon tetrachloride	ug/L	50	48.3	97	70-132	
Chlorobenzene	ug/L	50	50.0	100	70-130	
Chloroethane	ug/L	50	49.6	99	64-134	
Chloroform	ug/L	50	51.5	103	70-130	
Chloromethane	ug/L	50	61.1	122	64-130	
cis-1,2-Dichloroethene	ug/L	50	54.6	109	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co. Closed LF
Pace Project No.: 9292579

LABORATORY CONTROL SAMPLE: 598698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dibromomethane	ug/L	50	51.8	104	70-131	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethylbenzene	ug/L	50	54.6	109	70-130	
Iodomethane	ug/L	100	109	109	49-180	
m&p-Xylene	ug/L	100	114	114	70-130	
Methylene Chloride	ug/L	50	55.2	110	63-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	52.7	105	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	51.5	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	55.2	110	70-141	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	62-133	
Vinyl acetate	ug/L	100	104	104	66-157	
Vinyl chloride	ug/L	50	53.6	107	69-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598699 598700

Parameter	Units	9292579007 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	65.7	65.1	131	130	70-166	1	30	
Benzene	ug/L	ND	50	50	55.3	55.3	111	111	70-148	0	30	
Chlorobenzene	ug/L	ND	50	50	56.4	55.0	113	110	70-146	2	30	
Toluene	ug/L	ND	50	50	56.5	56.7	113	113	70-155	0	30	
Trichloroethene	ug/L	ND	50	50	50.2	49.7	100	99	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						116	117	70-130			
4-Bromofluorobenzene (S)	%						92	89	70-130			
Dibromofluoromethane (S)	%						113	115	70-130			
Toluene-d8 (S)	%						94	93	70-130			

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QUALIFIERS

Project: Madison Co. Closed LF
Pace Project No.: 9292579

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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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

1447036

Section A Required Client Information:

Company: Altamont Environmental
Address: 831 Haywood Street, Asheville NC 28801
Email To: JLenk@altamontenvironmental.com
Phone: 828-281-3350 Fax: 828-281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: Madison Co. Closed LF
Project Number: 2313.1201

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager:
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): Appendix I VOCs 8260; RCRA Metals

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	Appendix I VOCs 8260	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292579
1	MW-01-OLD	WT	G			4/21/11	1523	11	4			X	X					X	X		-001
2	MW-02-OLD	WT	G			4/21/11	1440	14	4			X	X					X	X		-002
3	MW-03-OLD	WT	G			4/21/11	1307	15	4			X	X					X	X		-003
4	MW-04-OLD	WT	G			4/21/11	1345	15	4			X	X					X	X		-004
5	BG-SPRING-OLD	WT	G			4/21/11	1150	12	4			X	X					X	X		-005
6	SW-01-OLD	WT	G			4/21/11	1462	14	4			X	X					X	X		-006
7	SW-02-OLD	WT	G			4/21/11	1208	14	4			X	X					X	X		-007
8																					~~-008~~
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
-VOCs 8260 Low Level	Evan Yurkovich / Altamont	4/21/11	1625	Jam RW	4/21/11	1625	3.5	Y	N	Y
-Include MDL and Qualifiers if applicable										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Evan Yurkovich
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 4/21/11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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 # 9292579

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 - 80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 3.5 C **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 4/21/11

Temp should be above freezing to 6°C

				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	
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: _____

SCURF Review: RP Date: 4/26/11 **SRF Review:** RP Date: 4/26/11

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)

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 09, 2011

Mr. Joel Lenk
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2011. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

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Huntersville, NC 28078
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CERTIFICATIONS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
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 #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
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
Virginia Certification #: 00072
West Virginia Certification #: 356

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9292580001	**DW-01**	Water	04/19/11 15:34	04/21/11 16:25
9292580002	**DW-02**	Water	04/19/11 15:10	04/21/11 16:25
9292580003	**TRIP BLANK**	Water	04/19/11 00:00	04/21/11 16:25

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SAMPLE ANALYTE COUNT

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9292580001	**DW-01**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292580002	**DW-02**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9292580003	**TRIP BLANK**	EPA 8260	MCK	53	PASI-C

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(336)623-8921

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: DW-01 **Lab ID: 9292580001** Collected: 04/19/11 15:34 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 18:11	7440-38-2	
Barium	**180**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:11	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 18:11	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 18:11	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 18:11	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 18:11	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:11	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 14:59	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 17:54	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 17:54	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 17:54	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 17:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 17:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 17:54	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 17:54	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 17:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 17:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 17:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 17:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 17:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 17:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 17:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 17:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 17:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 17:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 17:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 17:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 17:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 17:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 17:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 17:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 17:54	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 17:54	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 17:54	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 17:54	75-09-2	

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2225 Riverside Dr.
Asheville, NC 28804
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: DW-01 **Lab ID: 9292580001** Collected: 04/19/11 15:34 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 17:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 17:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 17:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 17:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 17:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 17:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 17:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 17:54	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 17:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 17:54	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/30/11 17:54	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		04/30/11 17:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		04/30/11 17:54	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/30/11 17:54	2037-26-5	

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: DW-02 **Lab ID: 9292580002** Collected: 04/19/11 15:10 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	04/26/11 12:00	04/27/11 18:14	7440-38-2	
Barium	**149**	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:14	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/26/11 12:00	04/27/11 18:14	7440-43-9	
Chromium	**13.4**	ug/L	5.0	2.0	1	04/26/11 12:00	04/27/11 18:14	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/26/11 12:00	04/27/11 18:14	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/26/11 12:00	04/27/11 18:14	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/26/11 12:00	04/27/11 18:14	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/03/11 17:45	05/05/11 15:01	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**61.6**	ug/L	25.0	2.2	1		04/30/11 18:19	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 18:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 18:19	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 18:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 18:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 18:19	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 18:19	74-83-9	
2-Butanone (MEK)	**77.6**	ug/L	5.0	0.96	1		04/30/11 18:19	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 18:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 18:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 18:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 18:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 18:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 18:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 18:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 18:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 18:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 18:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 18:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 18:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 18:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 18:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 18:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 18:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 18:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 18:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 18:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 18:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 18:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 18:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 18:19	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 18:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 18:19	75-09-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: DW-02 **Lab ID: 9292580002** Collected: 04/19/11 15:10 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 18:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 18:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 18:19	79-34-5	
Tetrachloroethene	**0.55J**	ug/L	1.0	0.46	1		04/30/11 18:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 18:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 18:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 18:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 18:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 18:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 18:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 18:19	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 18:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 18:19	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/30/11 18:19	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		04/30/11 18:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		04/30/11 18:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/30/11 18:19	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: TRIP BLANK **Lab ID: 9292580003** Collected: 04/19/11 00:00 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/30/11 18:45	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/30/11 18:45	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/30/11 18:45	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/30/11 18:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/30/11 18:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/30/11 18:45	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		04/30/11 18:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/30/11 18:45	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/30/11 18:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/30/11 18:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/30/11 18:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/30/11 18:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/30/11 18:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/30/11 18:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		04/30/11 18:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/30/11 18:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/30/11 18:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/30/11 18:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/30/11 18:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/30/11 18:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/30/11 18:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/30/11 18:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/30/11 18:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/30/11 18:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/30/11 18:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/30/11 18:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/30/11 18:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/30/11 18:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/30/11 18:45	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/30/11 18:45	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/30/11 18:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/30/11 18:45	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/30/11 18:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		04/30/11 18:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/30/11 18:45	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/30/11 18:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/30/11 18:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/30/11 18:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/30/11 18:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/30/11 18:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/30/11 18:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/30/11 18:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/30/11 18:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/30/11 18:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/30/11 18:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/30/11 18:45	108-05-4	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

Sample: TRIP BLANK **Lab ID: 9292580003** Collected: 04/19/11 00:00 Received: 04/21/11 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/30/11 18:45	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/30/11 18:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/30/11 18:45	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/30/11 18:45	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		04/30/11 18:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	129	%	70-130		1		04/30/11 18:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/30/11 18:45	2037-26-5	

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QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

QC Batch: MPRP/8254 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 9292580001, 9292580002

METHOD BLANK: 596145 | Matrix: Water
Associated Lab Samples: 9292580001, 9292580002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	04/27/11 16:58	
Barium	ug/L	ND	5.0	04/27/11 16:58	
Cadmium	ug/L	ND	1.0	04/27/11 16:58	
Chromium	ug/L	ND	5.0	04/27/11 16:58	
Lead	ug/L	ND	5.0	04/27/11 16:58	
Selenium	ug/L	ND	10.0	04/27/11 16:58	
Silver	ug/L	ND	5.0	04/27/11 16:58	

LABORATORY CONTROL SAMPLE: 596146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	486	97	80-120	
Barium	ug/L	500	492	98	80-120	
Cadmium	ug/L	500	502	100	80-120	
Chromium	ug/L	500	499	100	80-120	
Lead	ug/L	500	499	100	80-120	
Selenium	ug/L	500	487	97	80-120	
Silver	ug/L	250	244	98	80-120	

MATRIX SPIKE SAMPLE: 596275

Parameter	Units	9292480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	487	97	75-125	
Barium	ug/L	45.4	500	515	94	75-125	
Cadmium	ug/L	ND	500	480	96	75-125	
Chromium	ug/L	ND	500	477	95	75-125	
Lead	ug/L	ND	500	475	95	75-125	
Selenium	ug/L	ND	500	479	96	75-125	
Silver	ug/L	ND	250	240	96	75-125	

SAMPLE DUPLICATE: 596281

Parameter	Units	9292480002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	49.8	49.3	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	

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(828)254-7176

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(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

SAMPLE DUPLICATE: 596281

Parameter	Units	9292480002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

QC Batch: MERP/3457 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 9292580001, 9292580002

METHOD BLANK: 600008 — Matrix: Water
Associated Lab Samples: 9292580001, 9292580002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/05/11 14:19	

LABORATORY CONTROL SAMPLE: 600009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 600010 — 600011

Parameter	Units	9292579001 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	2.0	1.7	81	68	75-125	18	25	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 600012 — 600013

Parameter	Units	9292579002 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	2.1	2.1	82	83	75-125	1	25	

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(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

QC Batch: MSV/15021 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9292580001, 9292580002, 9292580003

METHOD BLANK: 598725 Matrix: Water
Associated Lab Samples: 9292580001, 9292580002, 9292580003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,1-Dichloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,1-Dichloroethene	ug/L	ND	1.0	04/30/11 13:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/30/11 13:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/30/11 13:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/30/11 13:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/30/11 13:39	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/11 13:39	
1,2-Dichloropropane	ug/L	ND	1.0	04/30/11 13:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/11 13:39	
2-Butanone (MEK)	ug/L	ND	5.0	04/30/11 13:39	
2-Hexanone	ug/L	ND	5.0	04/30/11 13:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/30/11 13:39	
Acetone	ug/L	ND	25.0	04/30/11 13:39	
Acrylonitrile	ug/L	ND	10.0	04/30/11 13:39	
Benzene	ug/L	ND	1.0	04/30/11 13:39	
Bromochloromethane	ug/L	ND	1.0	04/30/11 13:39	
Bromodichloromethane	ug/L	ND	1.0	04/30/11 13:39	
Bromoform	ug/L	ND	1.0	04/30/11 13:39	
Bromomethane	ug/L	ND	2.0	04/30/11 13:39	
Carbon disulfide	ug/L	ND	2.0	04/30/11 13:39	
Carbon tetrachloride	ug/L	ND	1.0	04/30/11 13:39	
Chlorobenzene	ug/L	ND	1.0	04/30/11 13:39	
Chloroethane	ug/L	ND	1.0	04/30/11 13:39	
Chloroform	ug/L	ND	1.0	04/30/11 13:39	
Chloromethane	ug/L	ND	1.0	04/30/11 13:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/11 13:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/30/11 13:39	
Dibromochloromethane	ug/L	ND	1.0	04/30/11 13:39	
Dibromomethane	ug/L	ND	1.0	04/30/11 13:39	
Diisopropyl ether	ug/L	ND	1.0	04/30/11 13:39	
Ethylbenzene	ug/L	ND	1.0	04/30/11 13:39	
Iodomethane	ug/L	ND	5.0	04/30/11 13:39	
m&p-Xylene	ug/L	ND	2.0	04/30/11 13:39	
Methylene Chloride	ug/L	ND	1.0	04/30/11 13:39	
o-Xylene	ug/L	ND	1.0	04/30/11 13:39	
Styrene	ug/L	ND	1.0	04/30/11 13:39	
Tetrachloroethene	ug/L	ND	1.0	04/30/11 13:39	
Toluene	ug/L	ND	1.0	04/30/11 13:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/11 13:39	

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Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

METHOD BLANK: 598725 Matrix: Water

Associated Lab Samples: 9292580001, 9292580002, 9292580003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/30/11 13:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/30/11 13:39	
Trichloroethene	ug/L	ND	1.0	04/30/11 13:39	
Trichlorofluoromethane	ug/L	ND	1.0	04/30/11 13:39	
Vinyl acetate	ug/L	ND	2.0	04/30/11 13:39	
Vinyl chloride	ug/L	ND	1.0	04/30/11 13:39	
1,2-Dichloroethane-d4 (S)	%	118	70-130	04/30/11 13:39	
4-Bromofluorobenzene (S)	%	94	70-130	04/30/11 13:39	
Dibromofluoromethane (S)	%	120	70-130	04/30/11 13:39	
Toluene-d8 (S)	%	100	70-130	04/30/11 13:39	

LABORATORY CONTROL SAMPLE: 598726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	52.7	105	70-130	
1,1-Dichloroethene	ug/L	50	55.5	111	70-132	
1,2,3-Trichloropropane	ug/L	50	49.8	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.4	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.3	107	70-130	
1,2-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
1,2-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5	98	70-140	
Acetone	ug/L	100	111	111	50-175	
Acrylonitrile	ug/L	250	261	104	70-143	
Benzene	ug/L	50	50.2	100	70-130	
Bromochloromethane	ug/L	50	50.4	101	70-130	
Bromodichloromethane	ug/L	50	52.8	106	70-130	
Bromoform	ug/L	50	56.2	112	70-130	
Bromomethane	ug/L	50	44.2	88	54-130	
Carbon disulfide	ug/L	50	51.3	103	70-131	
Carbon tetrachloride	ug/L	50	47.8	96	70-132	
Chlorobenzene	ug/L	50	49.4	99	70-130	
Chloroethane	ug/L	50	47.8	96	64-134	
Chloroform	ug/L	50	51.6	103	70-130	
Chloromethane	ug/L	50	59.5	119	64-130	
cis-1,2-Dichloroethene	ug/L	50	54.8	110	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	70-130	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

LABORATORY CONTROL SAMPLE: 598726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dibromomethane	ug/L	50	51.0	102	70-131	
Diisopropyl ether	ug/L	50	50.9	102	70-130	
Ethylbenzene	ug/L	50	54.4	109	70-130	
Iodomethane	ug/L	100	107	107	49-180	
m&p-Xylene	ug/L	100	114	114	70-130	
Methylene Chloride	ug/L	50	56.6	113	63-130	
o-Xylene	ug/L	50	52.7	105	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	51.1	102	70-130	
Toluene	ug/L	50	51.1	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	47.5	95	70-141	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	52.0	104	62-133	
Vinyl acetate	ug/L	100	109	109	66-157	
Vinyl chloride	ug/L	50	53.2	106	69-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598727 598728

Parameter	Units	9292575010 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	67.9	65.8	136	132	70-166	3	30	
Benzene	ug/L	ND	50	50	55.6	54.9	111	110	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	55.7	55.5	111	111	70-146	0	30	
Toluene	ug/L	ND	50	50	57.2	56.1	114	112	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	50.1	48.3	100	97	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						119	116	70-130			
4-Bromofluorobenzene (S)	%						90	90	70-130			
Dibromofluoromethane (S)	%						115	115	70-130			
Toluene-d8 (S)	%						95	94	70-130			

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QUALIFIERS

Project: Madison Co. Closed LF-DW
Pace Project No.: 9292580

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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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

1474881

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: Madison Co. Closed LF
Project Number: 2313.1201

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Allamont
Address: Same
Pace Quote Reference:
Pace Project Manager:
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	Composite Start Time	Composite End/Grab Date	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	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292580
1	DW-01	WT	G			4/19/11	1534	14	4			X	X						X	X		-001
2	DW-02	WT	G			4/19/11	1510	15	4			X	X						X	X		-002
3	TRIP BLANK LAB →								2				X						X			-003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
- VOCs 8260 Low Level	Evans Yurkovich / Allamont	4/21/11	1625	Jon RW	4/21/11	~~3.5~~ 1625	3.5	Y	N	Y
- Include MDL and Qualifiers if applicable										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evans Yurkovich

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/19/11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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.

Pace Analytical®
www.pacelabs.com

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

1474881

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: Madison Co. Closed LF
Project Number: 2313.1201

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager:
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

Requested Analysis Filtered (Y/N): Appendix I VOCs; RCRA Metals

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/GRAB DATE	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	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292580
1	DW-01	WT	G			4/19/11	1534	14	4			X	X					X	X		-001
2	DW-02	WT	G			4/19/11	1510	15	4			X	X					X	X		-002
3	TRIP BLANK LAB →								2				X					X			-003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
- VOCs 8260 Low Level	Evan Yurkovich / Altamont	4/21/11	1625	[signature]	4/21/11	~~3.5~~ 1625	3.5	Y	N	Y
- Include MDL and Qualifiers if applicable										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Evan Yurkovich
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4/19/11

*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.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Altamont Project # 92925580

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 ~~80344039~~ **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 3.5 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4/22/11

				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	
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: _____

SCURF Review: PP **Date:** 4/26/11 **SRF Review:** PP **Date:** 4/26/11

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)