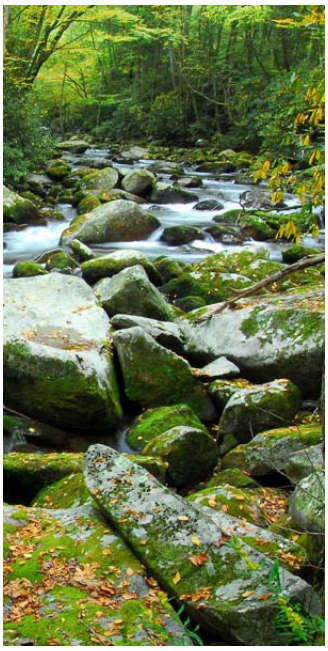

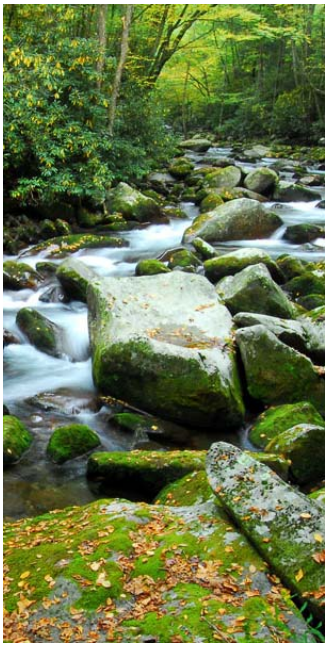

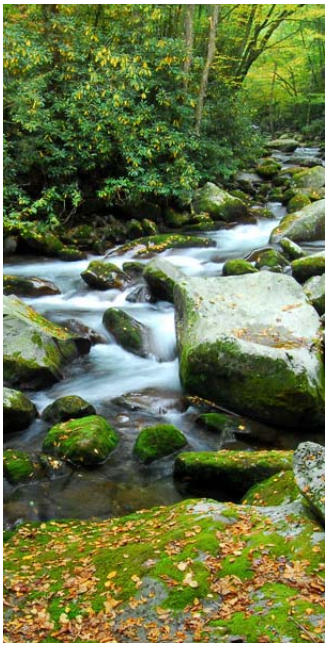

ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Spring 2012 Semiannual Water Quality Monitoring Report

Madison County Closed Solid Waste Facility

Madison County, North Carolina Permit #58-02

July 11, 2012

Prepared for
Madison County, North Carolina
Project Number 2313.1201

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

Spring 2012 Semiannual Water Quality Monitoring Report

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Joel Lenk, P.G.
Project Geologist

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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. The general site location is presented on Figure 1.

The closed landfill is permitted by the North Carolina Department of Environment and Natural Resources (DENR) Division of Waste Management (DWM) under Permit No. 58-02, which requires semiannual monitoring of groundwater and surface water quality.

This report is being submitted in accordance with monitoring requirements for closed landfills as stipulated in the DENR DWM Permit No. 58-02 issued to the Madison County Solid Waste Department and with regulations codified in the DENR Solid Waste Management (SWM) Rules Title 15A, Subchapter 13B, Section .500, of the North Carolina Administrative Code (15A NCAC 13B.500).

This report describes the first groundwater and surface water quality monitoring event conducted in 2012.

The water quality monitoring network for the closed landfill consists of four compliance monitoring wells (MW-01 OLD, MW-02 OLD, MW-03 OLD and MW-04 OLD), a background groundwater quality sampling location (BG SPRING OLD), and two surface water sample locations SW-01 OLD (upstream) and SW-02 OLD (downstream) located along Profitt Branch (see Figure 2).

2.0 Methods

Groundwater and surface water samples were collected at the closed landfill by Altamont Environmental, Inc. (Altamont) personnel on April 27, 2012 (see Appendices A and B). Additionally, one domestic drinking water well (DW-01) was sampled as part of this sampling event (Table 1). Approximate sample locations are depicted on Figure 2.

As discussed in the previous report (*Fall 2011 Semiannual Water Quality Monitoring Report*, Altamont, dated January 6, 2012), a second domestic drinking water well (DW-02) was abandoned on August 14, 2011. The well abandonment record was included in Appendix C of the January 6, 2012 report.

The water sample collected from the background sampling location BG SPRING OLD 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 of each of the wells was measured and recorded in order to calculate the well's volume. At each sample location, an initial round of field parameters consisting of pH, specific conductivity (SC), dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity, and temperature was measured and recorded. Water-level measurements and field parameters are included on the sampling logs, which are included in Appendix A. Groundwater monitoring wells and sampling point BG SPRING OLD were then purged using 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 a minimum of 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 final round of field parameters and a groundwater sample.

2.1.2 Domestic Well Sampling Methods

Altamont personnel sampled one domestic well, DW-01, on April 27, 2012. The well was purged and sampled using the dedicated pump existing in the well. Groundwater obtained in order to measure field parameters for the sample from domestic well DW-01 was accessed from a spigot in the basement of Mrs. J. V. Edwards's house because a spigot does not exist 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 presented in Appendix A. A groundwater sample was collected from the 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, SC, DO, ORP, and turbidity, was measured and recorded at each surface water sampling location prior to sample collection (Appendix A). One surface water sample was collected from each surface water sampling location using laboratory-supplied sample containers by a technician wearing a new pair of disposable nitrile gloves.

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to water quality sampling at the closed landfill sampling locations are provided on the sampling logs included in Appendix A. 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 well, 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 summary of laboratory analyses performed on samples is included at Table 1. A trip blank, provided by the laboratory, was placed in the sample coolers and was 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. Water-level measurements and field parameters are included in the Electronic Data Deliverable (EDD) in Appendix C.

3.0 Findings

3.1 Analytical Results

The laboratory analytical results and field parameters data for the groundwater, surface water and trip blank samples collected at the closed landfill are included in Appendices A and B in hard copy and also in Appendix C, in the EDD format specified by the Solid Waste Section (SWS) of the DWM in a memorandum dated October 27, 2006 and its addendum dated February 23, 2007.

As stipulated in the DWM documents referenced above, 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 percent 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 of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is above the laboratory MDL and below the method reporting limit (MRL), the analytical result is qualified by the laboratory as estimated, and is flagged with a "J" qualifier (J-flag). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. If the reported concentration is greater than the laboratory MDL and less than the SWSL, the analytical result is qualified by Altamont as estimated, and is flagged with a "*J*" qualifier (italicized *J*-flag).

Detected concentrations of analytes in groundwater samples were compared to current groundwater quality standards specified in 15A NCAC 2L.0202, and are referred to as 2L standards. Detected concentrations of analytes in groundwater with no established 2L standard were compared to the interim maximum allowable concentrations (IMACs) for Class GA and GSA groundwater (in accordance with 15A NCAC 02L .0202 [c]) if established. Detections of analytes in surface water samples were compared to the 15A NCAC 2B.0200 surface water quality standards (2B standard). Concentrations below respective SWSLs are not discussed in the text of this report unless they exceed their contaminant-specific 2L or 2B water quality standard, as defined below.

Table 2 presents the summary of laboratory analytical results for detected constituents only. 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 (including IMACs, if applicable) or 2B Standards (surface water).

In the EDD (Appendix C), 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 tables, figures and text of this report, however, the identification of a well consists only of the name of the well and does not include the permit number for the facility.

3.1.1 Groundwater Monitoring Wells

The following statements summarize detections of RCRA metals, Appendix I VOCs, and field parameters in groundwater.

3.1.1.1 RCRA Metals

Five metals, arsenic, barium, cadmium, chromium, and lead, were detected in the groundwater samples collected from one or more monitoring wells. With the exception of arsenic, concentrations of listed metals were in excess of their respective SWSLs in the groundwater samples collected from one or more monitoring wells. The concentration of barium exceeded its 2L standard in the samples collected from monitoring wells MW-01 OLD, MW-03 OLD, and MW-04 OLD. The concentration of cadmium exceeded its 2L standard in the

sample collected from monitoring well MW-01 OLD. The concentration of chromium exceeded its 2L standard in the sample collected from monitoring well MW-04 OLD.

3.1.1.2 Appendix I VOCs

Three VOCs (1,4-dichlorobenzene, benzene, and chlorobenzene) 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. Only benzene (MW-03 OLD) was detected at concentration in excess of the established 2L Standard in the sample collected from monitoring well MW-03 OLD.

3.1.1.3 Field Parameters

The pH readings obtained on April 27, 2012 from the majority of the wells (except for MW-03 OLD) were outside the range for pH (6.5 to 8.5 Standard Units [SU]) specified in 15A NCAC 02L .0202(c) (Table 2).

The remaining field parameters were not present at concentrations that exceed either the respective SWSLs and/or 2L standards where applicable.

3.1.2 Groundwater—Domestic Water Well

No metals were detected in the sample collected from domestic water well DW-01 at concentrations that exceeded 2L standards. Only one metal, barium, was detected (183 micrograms per liter [µg/L]) in the groundwater sample collected from domestic well DW-01 at concentration above the SWSL. No VOCs were detected in the groundwater sample collected from the domestic well. The pH measured in the groundwater sample from the domestic well was outside (5.95 SU) the 2L standard range of 6.5 to 8.5 SU.

3.1.3 Surface Water

The following statements summarize detections of RCRA metals, Appendix I VOCs, and field parameters in surface water.

3.1.3.1 RCRA Metals

Barium was found in both surface water samples at concentrations below the SWSL. 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.

3.1.3.3 Field Parameters

The pH readings collected from both surface water sample locations were within the pH 2B Standard range established at 6.0 to 9.0 SU. The remaining field parameters were not present at concentrations that exceed either the respective SWSLs and/or 2B Standards where applicable.

4.0 Site Hydrogeology

Groundwater was measured in the four monitoring wells (MW-01 OLD, MW-02 OLD, MW-03 OLD and MW-04 OLD) at the closed landfill at depths of approximately 5.20 feet below ground surface (ft-bgs), 7.74 ft-bgs, 43.38 ft-bgs, and 53.50 ft-bgs, respectively.

Monitoring wells MW-03 OLD and MW-04 OLD are installed in bedrock 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 and are screened in the water table aquifer. Locations of monitoring wells at the site are not situated such that groundwater flow direction may be accurately calculated based on data from these wells. 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 2,100 feet above mean sea level and drains to Profitt Branch.

5.0 Summary

Altamont completed the first semiannual water quality monitoring event of 2012 at the Madison County Closed Solid Waste Landfill on April 27, 2012.

Tables 2, 3, and 4 of this report, Pace Reports of Laboratory Analysis found in Appendix B, and the EDD spreadsheet found in Appendix C provide the detailed analytical results and field data related to groundwater and surface water quality at the closed landfill.

5.1 Future Activities

Altamont will continue to measure field parameters and collect water quality samples from groundwater and surface water monitoring points associated with the closed landfill. Water quality samples will be submitted to a North Carolina certified laboratory for analysis for RCRA metals and Appendix I VOCs on a semiannual basis. The next sampling event is scheduled for October 2012.

6.0 References

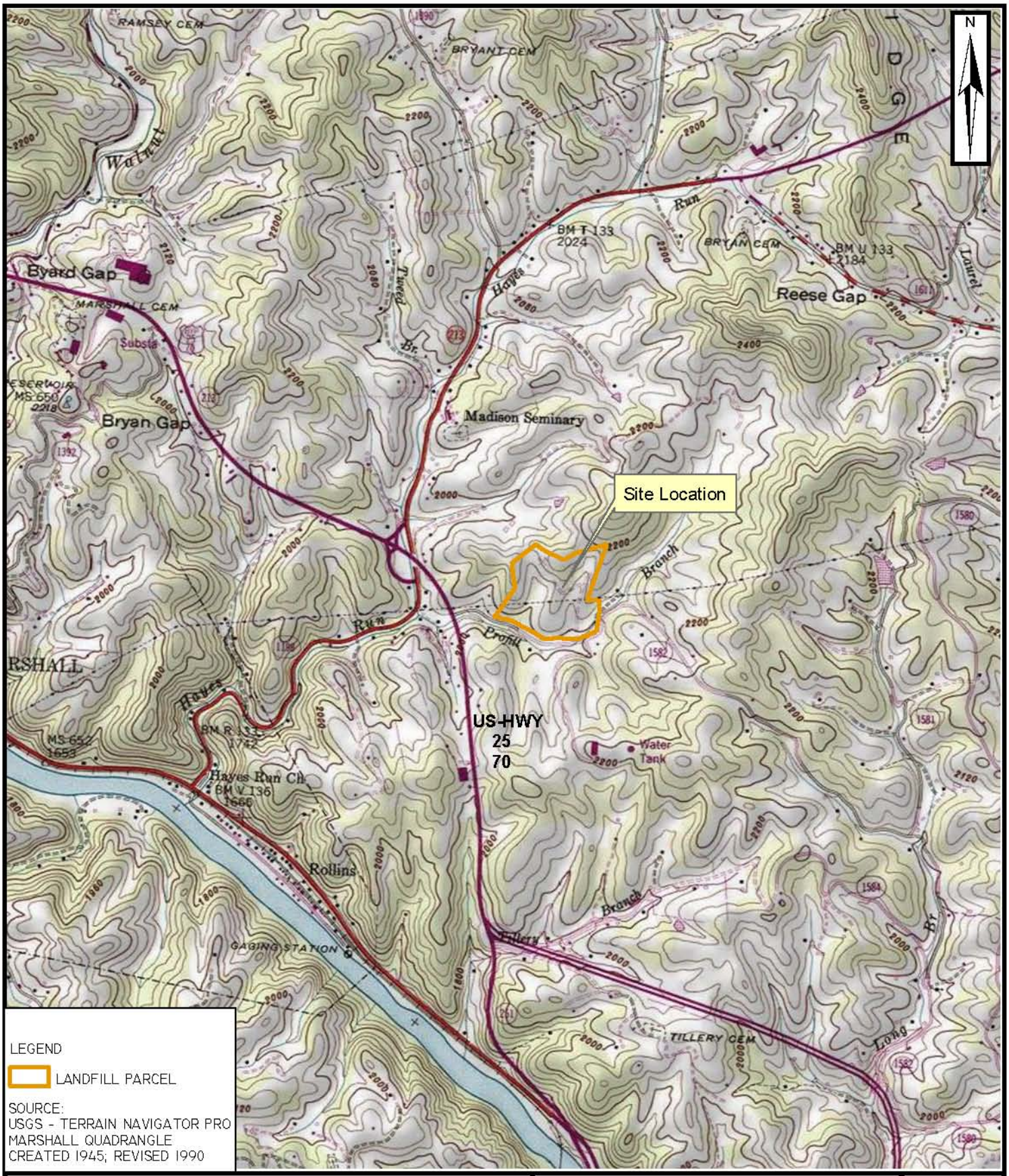
DENR DWM Solid Waste Section (SWS), October 27, 2006. *New Guidelines for Electronic Submittal of Environmental Monitoring Data*

DENR DWM SWS, February 23, 2007. *Addendum to October 27, 2006, NC SWS Memorandum Regarding New Guidelines for Electronic Submittal of Environmental Data*

Puls, R.W., and M. J. Barcelona. 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, U.S. Environmental Protection Agency, OSWER, EPA/540/S-95/504.

State of North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section. Rev 4-08. *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling.*

FIGURES



LEGEND

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 FAX: 828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

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

389 LONG BRANCH ROAD
MARSHALL, NC 28753

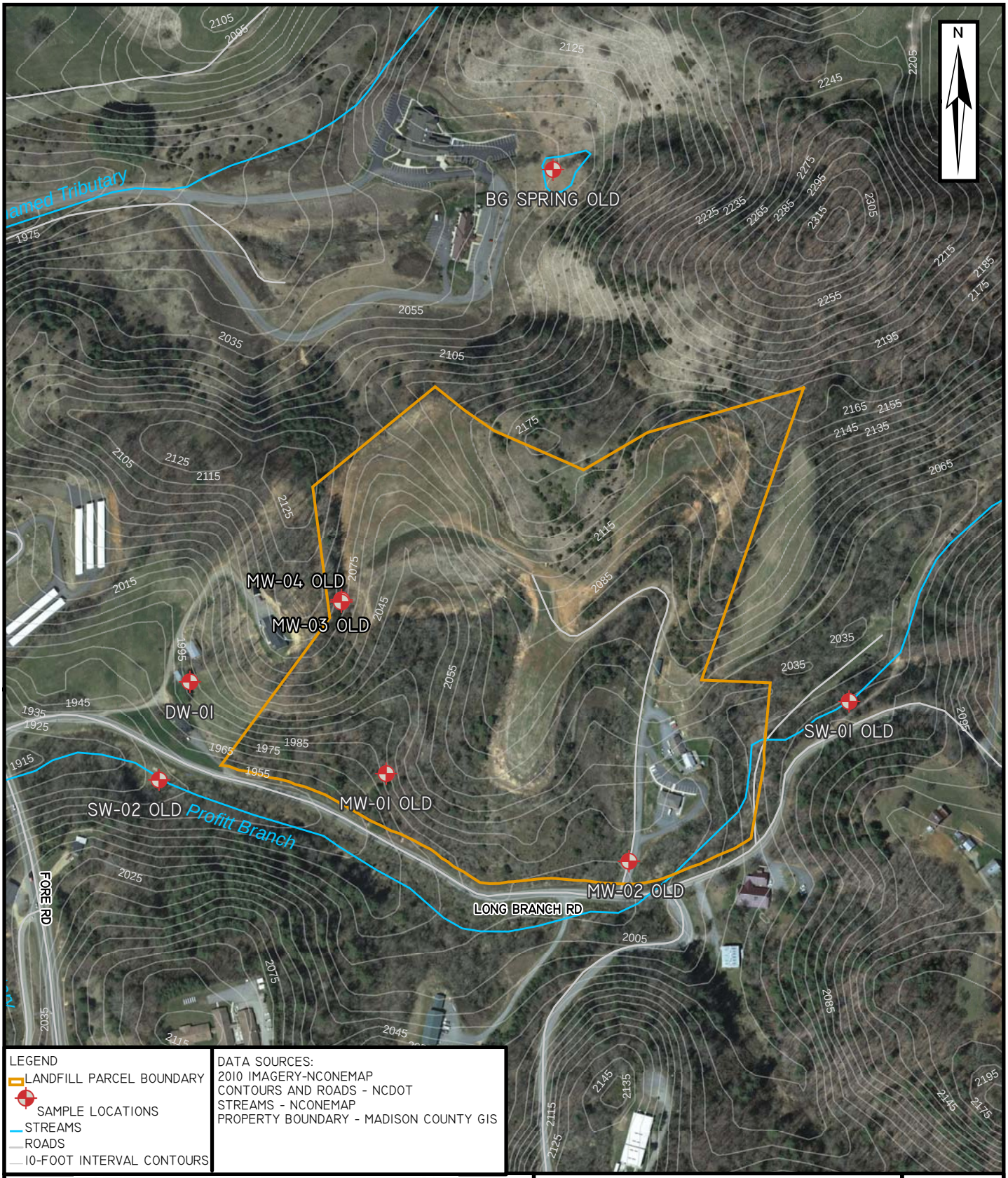
FIGURE

1

DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: JOEL LENK
CLIENT: MADISON COUNTY
DATE: 12/07/2011

SCALE
0 500 1,000 2,000 FEET

P:\MADISON COUNTY\FIGURES\GIS\GIS USER\MXDS\2011\FALL\5802-FIGURE 1-SITE LOCATION MAP CLOSED LF.MXD



LEGEND
- LANDFILL PARCEL BOUNDARY
- SAMPLE LOCATIONS
- STREAMS
- ROADS
- 10-FOOT INTERVAL CONTOURS

DATA SOURCES:
2010 IMAGERY-NCONEMAP
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: 06/11/2012

SCALE
0 100 200 400 FEET

P:\MADISON COUNTY\FIGURES\GIS\GIS USER\MXDS\2012\SPRING\5802FIGURE2-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	Collect Date	Appendix I VOCs	RCRA Metals
		EPA 8260	EPA 6010 EPA 7470
MW-01 OLD	04/27/2012	X	X
MW-02 OLD	04/27/2012	X	X
MW-03 OLD	04/27/2012	X	X
MW-04 OLD	04/27/2012	X	X
BG SPRING OLD	04/27/2012	X	X
DW-01	04/27/2012	X	X

SURFACE WATER SAMPLES

Sample Name	Collect Date	Appendix I VOCs	RCRA Metals
		EPA 8260	EPA 6010 EPA 7470
SW-01 OLD	04/27/2012	X	X
SW-02 OLD	04/27/2012	X	X

QUALITY CONTROL SAMPLES

Sample Name	Collect Date	Appendix I VOCs
		EPA 8260
TRIP BLANK	04/27/2012	X

Notes:
1. VOCs = volatile organic compounds
2. VOCs analysis include Appendix I constituents per 40 CFR Part 258.
2. RCRA Metals include the following: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

Table 2
Summary of Detected Constituents
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

		Metals Lab Certification 40 Lab Method EPA 6010					Appendix I VOCs Lab Certification 12 Lab Method EPA 8260							Field Parameters Lab Certification 5445 (pH only)	
	Parameter	Arsenic	Barium	Cadmium	Chromium	Lead	1,1-Dichloro ethane	1,4-Dichloro benzene	Benzene	Chloro benzene	Chloro ethane	cis-1,2-Dichloro ethene	Ethyl benzene	pH	Turbidity
	CAS Number	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7439-92-1	75-34-3	106-46-7	71-43-2	108-90-7	75-00-3	156-59-2	100-41-4	SW320	SW330
	SWS ID	14	15	34	51	131	75	71	16	39	41	78	110	320	330
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	SU	NTU
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01 OLD	04/27/2012	2.7 U	**108**	**2.4**	**3.0 J**	4.0 U	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	**0.23 J**	0.30 U	**5.51**	**113.3**
MW-02 OLD	04/27/2012	2.7 U	**55.7 *J***	0.50 U	2.0 U	4.0 U	**0.45 J**	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	**6.34**	**9.10**
MW-03 OLD	04/27/2012	2.7 U	**1,150**	0.50 U	2.0 U	4.0 U	0.32 U	**4.9**	**1.5**	**5.6**	**1.3 *J***	0.19 U	0.68 J	**6.81**	**8.44**
MW-04 OLD	04/27/2012	**3.2 J**	**1,370**	0.50 U	**19.2**	**13.0**	0.32 U	**5.1**	**0.65 J**	**4.8**	**0.95 J**	**0.45 J**	0.30 U	**6.03**	**291.1**
BG SPRING OLD	04/27/2012	2.7 U	**124**	0.50 U	**5.1 *J***	4.0 U	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	**6.11**	**44.66**
DW-01	04/27/2012	2.7 U	**183**	0.50 U	**3.5 J**	4.0 U	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	**5.95**	**16.73**
SW-01 OLD	04/27/2012	2.7 U	**72.2 *J***	0.50 U	2.0 U	4.0 U	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	**7.34**	**170.4**
SW-02 OLD	04/27/2012	2.7 U	**54.6 *J***	0.50 U	2.0 U	4.0 U	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	**7.23**	**16.57**
TRIP BLANK	04/27/2012	NA	NA	NA	NA	NA	0.32 U	0.33 U	0.25 U	0.23 U	0.54 U	0.19 U	0.30 U	NA	NA
	MDL	2.7	2.5	0.50	2.0	4.0	0.32	0.33	0.25	0.23	0.54	0.19	0.30	NA	NA
	MRL	5.0	5.0	1.0	5.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NA	NA
	SWSL	10	100	1	10	10	5	1	1	3	10	5	1	NE	NE
	2L	10	700	2	10	15	6	6	1	50	3,000	70	600	6.5-8.5	NE
	IMAC	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	2B	10	200,000	2	50	25	20,000	100	51	140	550	4,900	97	6.0-9.0	10

Notes:

1. Only detected constituents are listed on this table. Please refer to Pace Analytical Report of Laboratory Analysis for further details.
2. "Lab Method" is the analytical method used to analyze the constituents.
3. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
4. "SWS ID" is the Solid Waste Section Identification Number.
5. "Units" are micrograms per liter (µg/L) for analytical results, Standard Units (SU) for pH and nephelometric turbidity units (NTU) for turbidity.
6. "Collect Date" is the date on which the sample was collected in the field.
7. "Result" is analytical data reported by the laboratory or field data collected by Altamont.
8. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
9. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL equals PQL values in the Pace Analytical Reports.
10. "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.
11. "U" is a laboratory data qualifier used for parameters not detected at concentrations above MDL.
12. "J" is a laboratory data qualifier used for parameters detected at estimated concentrations above MDL but below MRL and SWSL.
    An italicized "*J* " qualifier is assigned by Altamont to reflect a detected concentration that is greater than MRL and MDL but less than the SWSL.
13. "2L" and "IMAC" (Interim Maximum Allowable Concentration) are groundwater standards from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
14. "2B" indicates surface water standard per "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).
15. "NE" means Not Established. "NA" means Not Applicable. Blank cells indicate that there is no information relevant to the respective row.
16. **Bold** numbers indicate any detection. Grayed cells indicate result in exceedance of the 2L or IMAC standards.

Table 3
Solid Waste Section Limits Exceedances 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	COLLECT DATE
58-02	MW-01 OLD	7440-39-3	15	Barium	**108**	ug/L		EPA 6010	2.5	5.0	100	04/27/2012
58-02	MW-01 OLD	7440-43-9	34	Cadmium	**2.4**	ug/L		EPA 6010	0.50	1.0	1	04/27/2012
58-02	MW-03 OLD	7440-39-3	15	Barium	**1,150**	ug/L		EPA 6010	2.5	5.0	100	04/27/2012
58-02	MW-03 OLD	106-46-7	71	1,4-Dichlorobenzene	**4.9**	ug/L		EPA 8260	0.33	1.0	1	04/27/2012
58-02	MW-03 OLD	71-43-2	16	Benzene	**1.5**	ug/L		EPA 8260	0.25	1.0	1	04/27/2012
58-02	MW-03 OLD	108-90-7	39	Chlorobenzene	**5.6**	ug/L		EPA 8260	0.23	1.0	3	04/27/2012
58-02	MW-04 OLD	7440-39-3	15	Barium	**1,370**	ug/L		EPA 6010	2.5	5.0	100	04/27/2012
58-02	MW-04 OLD	7440-47-3	51	Chromium	**19.2**	ug/L		EPA 6010	2.0	5.0	10	04/27/2012
58-02	MW-04 OLD	7439-92-1	131	Lead	**13.0**	ug/L		EPA 6010	4.0	5.0	10	04/27/2012
58-02	MW-04 OLD	106-46-7	71	1,4-Dichlorobenzene	**5.1**	ug/L		EPA 8260	0.33	1.0	1	04/27/2012
58-02	MW-04 OLD	108-90-7	39	Chlorobenzene	**4.8**	ug/L		EPA 8260	0.23	1.0	3	04/27/2012
58-02	BG SPRING OLD	7440-39-3	15	Barium	**124**	ug/L		EPA 6010	2.5	5.0	100	04/27/2012
58-02	DW-01	7440-39-3	15	Barium	**183**	ug/L		EPA 6010	2.5	5.0	100	04/27/2012

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results.
5. "QUALIFIER" is a data qualifier or "flag". A blank cell indicates that there is no qualifier associated with the reported result.
6. "METHOD" is the analytical method used to analyze the constituents.
7. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
8. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
9. "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.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. **Bold** numbers indicate any detection. Grayed cells indicate result in exceedance of the 2L or Interim Maximum Allowable Concentration (IMAC) standards.
12. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).

Table 4
Water Quality Standards Exceedances 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	GROUNDWATER QUALITY STANDARD	COLLECT DATE	CAUSE AND SIGNIFICANCE
58-02	MW-01 OLD	7440-43-9	34	Cadmium	**2.4**	ug/L		EPA 6010	0.50	1.0	1	2	04/27/2012	Possibly naturally occuring. Turbidity of sample 113.3 NTUs.
58-02	MW-01 OLD	SW320	320	pH	**5.51**	SU					NE	6.5 - 8.5	04/27/2012	Consistent with historic readings.
58-02	MW-02 OLD	SW320	320	pH	**6.34**	SU					NE	6.5 - 8.5	04/27/2012	Consistent with historic readings.
58-02	MW-03 OLD	7440-39-3	15	Barium	**1,150**	ug/L		EPA 6010	2.5	5.0	100	700	04/27/2012	Possibly naturally occuring. Turbidity of sample 8.44 NTUs.
58-02	MW-03 OLD	71-43-2	16	Benzene	**1.5**	ug/L		EPA 8260	0.25	1.0	1	1	04/27/2012	Anthropogenic.
58-02	MW-04 OLD	7440-39-3	15	Barium	**1,370**	ug/L		EPA 6010	2.5	5.0	100	700	04/27/2012	Possibly naturally occuring. Turbidity
58-02	MW-04 OLD	7440-47-3	51	Chromium	**19.2**	ug/L		EPA 6010	2.0	5.0	10	10	04/27/2012	of sample 291.1 NTUs.
58-02	MW-04 OLD	SW320	320	pH	**6.03**	SU					NE	6.5 - 8.5	04/27/2012	Consistent with historic readings.
58-02	BG SPRING OLD	SW320	320	pH	**6.11**	SU					NE	6.5 - 8.5	04/27/2012	Consistent with historic readings.
58-02	DW-01	SW320	320	pH	**5.95**	SU					NE	6.5 - 8.5	04/27/2012	Consistent with historic readings.

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is analytical data reported by the laboratory or field data collected by Altamont.
4. "UNITS" are micrograms per liter (µg/L) for analytical results and Standard Units (SU) for pH.
5. "QUALIFIER" is a data qualifier or "flag". A blank cell indicates that there is no qualifier associated with the reported result.
6. "METHOD" is the analytical method used to analyze the constituents.
7. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
8. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
9. "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.
10. "GROUNDWATER QUALITY STANDARD" refers to the 2L Standard, Interim Maximum Allowable Concentration (IMAC), or Groundwater Protection Standard (GWPS) for groundwater.
11. "COLLECT DATE" is the date on which the sample was collected in the field.
12. "NE" means Not Established.
13. **Bold** numbers indicate a detection above laboratory MRL. Grayed cells indicate result in exceedance of the 2B (surface water), 2L, IMAC (groundwater) standards.
14. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
15. "2B" indicates surface water standard per "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).

APPENDICES

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

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

Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: P Brooks

DATE: 4/27/12
WEATHER: 60's pt. cloudy
SAMPLE TIME: 958

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

WELL DEPTH IN FEET (WD): 20.70
WATER LEVEL IN FEET (WL): 5.20
LENGTH OF WATER COLUMN: 15.50 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.64 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 7.92 GALLONS
ACTUAL VOLUME PURGED: 8.25 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	939	0	12.98	163	4.11	6.03	-81.8	11.36	
2	945	2.75	11.46	112	4.26	5.49	-73.5	54.80	
3	952	5.50	11.35	127	4.68	5.54	-72.2	59.80	
4	958	8.25	11.42	114	5.43	5.51	-65.3	113.3	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals (6010), Hg (7470), RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	App. I VOAs
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: Date: 4/27/12

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: 2315
SAMPLING PERSONNEL: P Brooks

DATE: 4/27/12
WEATHER: 60s pt. cloudy
SAMPLE TIME: 1044

WELL NUMBER: MW-02 OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: yes
FLUSH MOUNT / STICK-UP
COMMENTS: Well bailed dry after ≈10 gal.; waited for well to recharge, then collected a sample

WELL DEPTH IN FEET (WD): 43.30
WATER LEVEL IN FEET (WL): 7.74
LENGTH OF WATER COLUMN: 35.56 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 6.05 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 18.15 GALLONS
ACTUAL VOLUME PURGED: ≈10 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	1019	0	13.35	229	6.81	6.21	-79.2	5.88	
2	1035	6.25	13.67	227	7.07	6.23	-75.8	5.48	
3	1044	10	13.83	222	5.32	6.34	-48.7	9.10	
4									
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals 6010, Hg 7470, RCRA metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOAs
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] Date: 4/27/12

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: PBrooks

DATE: 4/27/12
WEATHER: 70's pt cloudy
SAMPLE TIME: 1137

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

WELL DEPTH IN FEET (WD): 43.38
WATER LEVEL IN FEET (WL): 52.25
numbers switched GPB
LENGTH OF WATER COLUMN: 8.87 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.51 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 4.53 GALLONS
ACTUAL VOLUME PURGED: 4.75 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	1113	0	15.83	1285	3.87	7.34	-265.5	7.39	
2	1121	1.75	14.39	1331	2.02	7.17	-133.7	11.08	
3	1129	3.50	14.59	1337	2.03	6.93	-142.3	8.44	
4	1137	4.75	14.84	1339	1.01	6.81	-136.6		
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals 6010, Hg 7470, RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	Appl VOAs
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] Date: 4/27/12

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
DATE: 4/27/12
PROJECT NUMBER: 2313
WEATHER: 70's pt. cloudy
SAMPLING PERSONNEL: ~~Aarsha~~ P Brooks
SAMPLE TIME: 1233

WELL NUMBER: MW-04 OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: yes
FLUSH MOUNT / STICK-UP
COMMENTS: key wouldn't turn; had to cut off lock; well is not locked; bailed well dry after one well volume (≈ 7 gal.) allowed to recharge, then took samples

WELL DEPTH IN FEET (WD): 93.08
WATER LEVEL IN FEET (WL): 53.50
LENGTH OF WATER COLUMN: 39.58 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 6.73 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 20.19 GALLONS
ACTUAL VOLUME PURGED: 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	1208	Ø	15.31	1004	2.46	6.20	-139.8	37.76	
2		~~6.75~~							
3		~~13.50~~							
4		~~20.25~~							
5	1233	7	14.03	988	2.47	6.03	-108.3	291.1	
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	~~Appl~~ Metals 6010, Hg 7470, RCRA metals
125 mL PLASTIC		
40 mL GLASS	3	Appl VOCs
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: Date:

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
DATE: ~~4/26~~ 4/27/12
PROJECT NUMBER: 2313
WEATHER: 70s p. cloudy
SAMPLING PERSONNEL: P Brooks
SAMPLE TIME: 1421

WELL NUMBER: BG Spring - OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: top
FLUSH MOUNT / STICK-UP
COMMENTS: no lock on casing, lock on expandable cap

WELL DEPTH IN FEET (WD): ~~4.22~~ 14.20
WATER LEVEL IN FEET (WL): ~~12~~ 4.22
LENGTH OF WATER COLUMN: 9.98 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.70 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.10 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	1403	0	14.00	136	4.58	6.43	48.7	19.34	
2	1407	1.75	12.99	137	5.93	6.24	17.3	42.33	
3	1412	3.50	12.60	143	3.92	6.17	-34.9	40.91	
4	1421	5.25	12.94	147	3.53	6.11	-65.6	44.66	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals 6210, Hg 7470, RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	Appl VOCs
1 L GLASS		
OTHER	(ok inside)	

PROTECTIVE CASING: ok PAD: ok LOCK: none VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 4/27/12

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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ENGINEERING & HYDROGEOLOGY
231 HAYWOOD STREET, ASHEVILLE, NC 28801
TEL.828.281.3350 FAC.828.281.3351
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Well Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
DATE: 4/27/12
PROJECT NUMBER: 2313
WEATHER: 70s p. cloudy
SAMPLING PERSONNEL: P Brooks
SAMPLE TIME: 1326

WELL NUMBER: DW-01 EDWARDS
WELL DIAMETER: N/A
TYPE OF CASING: N/A
MEASURING POINT: N/A
FLUSH MOUNT / STICK-UP N/A
COMMENTS: taken from faucet to right of sink in 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: Grab
SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER: Grab

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	1313	0	19.85	192	8.02	6.07	18.4	61.56	
2	1317	10	16.50	181	7.26	5.81	10.1	28.06	
3	1321	20	15.20	179	7.13	5.90	4.3	18.90	
4	1326	30	14.97	179	6.39	5.75	-19.7	16.73	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals 6010, Hg 7470, RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	App. I VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: PAD: LOCK: VEGETATION: ACCESS:

Sampling Personnel Signature: Date: 4/27/12

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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ENGINEERING & HYDROGEOLOGY
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Surface Water Sampling Log

PROJECT NAME: Madison Co. Closed Land Fill
DATE: 4/27/12
PROJECT NUMBER: 2313
WEATHER: 70's pt. cloudy
SAMPLING PERSONNEL: P. Brooks

SAMPLE NAME: SW-01 OLD

COMMENTS: taken upstream of closed landfill; park by green gate

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
1254	14.38	224	12.47	7.34	-74.1	170.4	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals 6010, Hg 7470, RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 4/27/12

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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231 HAYWOOD STREET, ASHEVILLE, NC 28801
TEL.828.281.3350 FAC.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Surface Water Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
DATE: 4/27/12
PROJECT NUMBER: 2313
WEATHER: 70's pt. cloudy
SAMPLING PERSONNEL: P Brooks

SAMPLE NAME: SW-02 OLD

COMMENTS: downstream of closed landfill

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
1538	15.24	162	10.07	7.23	-36.8	16.57	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	8 Metals 6210, Hg 7470, RCRA Metals
125 mL PLASTIC		
40 mL GLASS	3	App. I VOCs
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 4/27/12

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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TEL.828.281.3350 FAC.828.281.3351
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Equipment Documentation & Instrument Calibration Data Sheet

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

Calibration Documentation
Person Conducting Calibration: P. Brooks
Date of Calibration: 4/26/12
Date of Field Measurements: 4/26/12

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	~~4~~ 4/26/12
150-ft Drawdown	MP30-1527	QED	
Other			

Sampling Cancelled due to thunderstorm 4/26/12

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: 0.00	Initial: 5.84	Initial: 821.6
		Cal: 0.02	Cal: 10.0	Cal: 1000
		Time: 806	Time: 805	Time: 803

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 11.18	Cal: 8.37	mmHg: 700.5	Time: 826			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 7.42	pHmV:	Cal: 7.00	pHmV:	Time: 759		3/13
pH 4 S.U. *report to 0.1 S.U.*	Initial: 3.52	pHmV:	Cal: 4.00	pHmV:	Time: 802		3/13
pH 10 S.U. *report to 0.1 S.U.*	Initial: 9.82	pHmV:	Cal: 9.97	pHmV:	Time: 818		11/12
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	
Spec. Cond. 1413/447/84/23 mS**	Initial: 1389	Cal: 1413	Time: 757				7/12
QC* 84 mS	AM Time: 832	Meas: 6.91	Mid Day Time:	Check:	PM Time:	Check:	
ORP ~~200~~ mV (240 mV)	Initial: 235.3	Cal: 240.0	Time: 828				

Comments:

Signature: [signature] Date: 4/26/12

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.

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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: P. Brooks
Date of Calibration: 4/27/12
Date of Field Measurements: 4/27/12

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	4/27/12
150-ft Drawdown	MP30-1527	QED	
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: 2.05	Initial: 11.16	Initial: 1018
		Cal: 0.02	Cal: 10.0	Cal: 1000
		Time: 815	Time: 814	Time: 810

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 8.15	Cal: 8.42	mmHg: 705.9	Time: 825			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 7.11	pHmV:	Cal: 7.00	pHmV:	Time: 802		
pH 4 S.U. *report to 0.1 S.U.*	Initial: 3.63	pHmV:	Cal: 4.00	pHmV:	Time: 805		
pH 10 S.U. *report to 0.1 S.U.*	Initial: 9.63	pHmV:	Cal: 9.98	pHmV:	Time: 816		
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	
Spec. Cond. 1413/447/84/23 mS**	Initial: 1486	Cal: 1413	Time: 755				
QC* 84 mS	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	
ORP 200 mV	Initial:	Cal:	Time:	Calibrated 4/26/12			

Comments:
Signature: [signature] Date: 4/27/12

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
Report of Laboratory Analysis 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, 2012

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

RE: Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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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CERTIFICATIONS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147

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

SAMPLE SUMMARY

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92117390001	**MW-01 OLD**	Water	04/27/12 09:58	04/27/12 15:27
92117390002	**MW-02 OLD**	Water	04/27/12 10:44	04/27/12 15:27
92117390003	**MW-03 OLD**	Water	04/27/12 11:37	04/27/12 15:27
92117390004	**MW-04 OLD**	Water	04/27/12 12:33	04/27/12 15:27
92117390005	**BG Spring OLD**	Water	04/27/12 14:21	04/27/12 15:27
92117390006	**SW-01 OLD**	Water	04/27/12 12:54	04/27/12 15:27
92117390007	**SW-02 OLD**	Water	04/27/12 13:38	04/27/12 15:27
92117390008	**DW-01**	Water	04/27/12 13:26	04/27/12 15:27
92117390009	**Trip Blank**	Water	04/27/12 00:00	04/27/12 15:27

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92117390001	**MW-01 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390002	**MW-02 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390003	**MW-03 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390004	**MW-04 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390005	**BG Spring OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390006	**SW-01 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390007	**SW-02 OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390008	**DW-01**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92117390009	**Trip Blank**	EPA 8260	MCK	51	PASI-C

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ANALYTICAL RESULTS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Sample: MW-01 OLD **Lab ID: 92117390001** Collected: 04/27/12 09:58 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:20	7440-38-2	
Barium	**108**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:20	7440-39-3	
Cadmium	**2.4**	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:20	7440-43-9	
Chromium	**3.0J**	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:20	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:20	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:20	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:20	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 12:59	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 15:12	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 15:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 15:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 15:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 15:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 15:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 15:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 15:12	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 15:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 15:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 15:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 15:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 15:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 15:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 15:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 15:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 15:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 15:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 15:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 15:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 15:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 15:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 15:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 15:12	75-35-4	
cis-1,2-Dichloroethene	**0.23J**	ug/L	1.0	0.19	1		05/04/12 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 15:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 15:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 15:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 15:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 15:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 15:12	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 15:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 15:12	108-10-1	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Sample: MW-01 OLD **Lab ID: 92117390001** Collected: 04/27/12 09:58 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 15:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 15:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 15:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 15:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 15:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 15:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 15:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 15:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 15:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 15:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 15:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 15:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 15:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/04/12 15:12	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/04/12 15:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/04/12 15:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/04/12 15:12	2037-26-5	

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
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9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Sample: MW-02 OLD **Lab ID: 92117390002** Collected: 04/27/12 10:44 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:23	7440-38-2	
Barium	**55.7**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:23	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:23	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:23	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:23	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:23	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:23	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:05	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 15:29	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 15:29	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 15:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 15:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 15:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 15:29	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 15:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 15:29	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 15:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 15:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 15:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 15:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 15:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 15:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 15:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 15:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 15:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 15:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 15:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 15:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 15:29	110-57-6	
1,1-Dichloroethane	**0.45J**	ug/L	1.0	0.32	1		05/04/12 15:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 15:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 15:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 15:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 15:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 15:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 15:29	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 15:29	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 15:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 15:29	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: MW-02 OLD **Lab ID: 92117390002** Collected: 04/27/12 10:44 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 15:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 15:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 15:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 15:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 15:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 15:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 15:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 15:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 15:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 15:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 15:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/12 15:29	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		05/04/12 15:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 15:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 15:29	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 LF2313.1201
Pace Project No.: 92117390

Sample: MW-03 OLD **Lab ID: 92117390003** Collected: 04/27/12 11:37 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:36	7440-38-2	
Barium	**1150**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:36	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:36	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:36	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:36	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:36	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:36	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:08	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 15:45	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 15:45	107-13-1	
Benzene	**1.5**	ug/L	1.0	0.25	1		05/04/12 15:45	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 15:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 15:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 15:45	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 15:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 15:45	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 15:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 15:45	56-23-5	
Chlorobenzene	**5.6**	ug/L	1.0	0.23	1		05/04/12 15:45	108-90-7	
Chloroethane	**1.3**	ug/L	1.0	0.54	1		05/04/12 15:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 15:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 15:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 15:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 15:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 15:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 15:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 15:45	95-50-1	
1,4-Dichlorobenzene	**4.9**	ug/L	1.0	0.33	1		05/04/12 15:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 15:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 15:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 15:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 15:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 15:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 15:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 15:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 15:45	10061-02-6	
Ethylbenzene	**0.68J**	ug/L	1.0	0.30	1		05/04/12 15:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 15:45	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 15:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 15:45	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: MW-03 OLD **Lab ID: 92117390003** Collected: 04/27/12 11:37 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 15:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 15:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 15:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 15:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 15:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 15:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 15:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 15:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 15:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 15:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/12 15:45	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/04/12 15:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 15:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/04/12 15:45	2037-26-5	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: MW-04 OLD **Lab ID: 92117390004** Collected: 04/27/12 12:33 Received: 04/27/12 15:27 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	**3.2J**	ug/L	5.0	2.7	1	04/30/12 09:45	05/01/12 21:40	7440-38-2	
Barium	**1370**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:40	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:40	7440-43-9	
Chromium	**19.2**	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:40	7440-47-3	
Lead	**13.0**	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:40	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:40	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:40	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:11	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 16:02	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 16:02	107-13-1	
Benzene	**0.65J**	ug/L	1.0	0.25	1		05/04/12 16:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 16:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 16:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 16:02	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 16:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 16:02	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 16:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 16:02	56-23-5	
Chlorobenzene	**4.8**	ug/L	1.0	0.23	1		05/04/12 16:02	108-90-7	
Chloroethane	**0.95J**	ug/L	1.0	0.54	1		05/04/12 16:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 16:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 16:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 16:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 16:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 16:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 16:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:02	95-50-1	
1,4-Dichlorobenzene	**5.1**	ug/L	1.0	0.33	1		05/04/12 16:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 16:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 16:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 16:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 16:02	75-35-4	
cis-1,2-Dichloroethene	**0.45J**	ug/L	1.0	0.19	1		05/04/12 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 16:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 16:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 16:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 16:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:02	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 16:02	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 16:02	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 16:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 16:02	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: MW-04 OLD **Lab ID: 92117390004** Collected: 04/27/12 12:33 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 16:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 16:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 16:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 16:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 16:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 16:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 16:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 16:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 16:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 16:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 16:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 16:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 16:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/04/12 16:02	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/04/12 16:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 16:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 16:02	2037-26-5	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: BG Spring OLD **Lab ID: 92117390005** Collected: 04/27/12 14:21 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:44	7440-38-2	
Barium	**124**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:44	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:44	7440-43-9	
Chromium	**5.1**	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:44	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:44	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:44	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:44	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:21	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 16:19	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 16:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 16:19	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 16:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 16:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 16:19	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 16:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 16:19	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 16:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 16:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 16:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 16:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 16:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 16:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 16:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 16:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 16:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 16:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 16:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 16:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 16:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 16:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 16:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 16:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 16:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 16:19	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 16:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 16:19	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: BG Spring OLD **Lab ID: 92117390005** Collected: 04/27/12 14:21 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 16:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 16:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 16:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 16:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 16:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 16:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 16:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 16:19	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 16:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/12 16:19	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/04/12 16:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 16:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/04/12 16:19	2037-26-5	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: SW-01 OLD **Lab ID: 92117390006** Collected: 04/27/12 12:54 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:47	7440-38-2	
Barium	**72.2**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:47	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:47	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:47	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:47	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:47	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:47	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:24	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 16:35	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 16:35	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 16:35	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 16:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 16:35	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 16:35	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 16:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 16:35	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 16:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 16:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 16:35	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 16:35	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 16:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 16:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 16:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 16:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 16:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 16:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 16:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 16:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 16:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 16:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 16:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 16:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 16:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 16:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:35	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 16:35	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 16:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 16:35	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: SW-01 OLD **Lab ID: 92117390006** Collected: 04/27/12 12:54 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 16:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 16:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 16:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 16:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 16:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 16:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 16:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 16:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 16:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 16:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 16:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 16:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 16:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/04/12 16:35	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/04/12 16:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 16:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 16:35	2037-26-5	

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Sample: SW-02 OLD **Lab ID: 92117390007** Collected: 04/27/12 13:38 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:50	7440-38-2	
Barium	**54.6**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:50	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:50	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:50	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:50	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:50	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:50	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:27	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 16:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 16:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 16:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 16:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 16:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 16:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 16:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 16:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 16:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 16:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 16:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 16:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 16:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 16:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 16:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 16:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 16:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 16:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 16:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 16:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 16:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 16:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 16:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 16:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 16:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 16:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 16:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 16:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 16:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 16:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 16:52	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: SW-02 OLD **Lab ID: 92117390007** Collected: 04/27/12 13:38 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 16:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 16:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 16:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 16:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 16:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 16:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 16:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 16:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 16:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 16:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 16:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/04/12 16:52	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/04/12 16:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/04/12 16:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 16:52	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 LF2313.1201
Pace Project No.: 92117390

Sample: DW-01 **Lab ID: 92117390008** Collected: 04/27/12 13:26 Received: 04/27/12 15:27 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	04/30/12 09:45	05/01/12 21:53	7440-38-2	
Barium	**183**	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:53	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/30/12 09:45	05/01/12 21:53	7440-43-9	
Chromium	**3.5J**	ug/L	5.0	2.0	1	04/30/12 09:45	05/01/12 21:53	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	04/30/12 09:45	05/01/12 21:53	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	04/30/12 09:45	05/01/12 21:53	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/12 09:45	05/01/12 21:53	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	05/08/12 12:40	05/09/12 13:29	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/04/12 17:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 17:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 17:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 17:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 17:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 17:09	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 17:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 17:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 17:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 17:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 17:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 17:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 17:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 17:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 17:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 17:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 17:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 17:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 17:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 17:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 17:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 17:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 17:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 17:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 17:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 17:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 17:09	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 17:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 17:09	108-10-1	

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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 LF2313.1201
Pace Project No.: 92117390

Sample: DW-01 **Lab ID: 92117390008** Collected: 04/27/12 13:26 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 17:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 17:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 17:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 17:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 17:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 17:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 17:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 17:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 17:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 17:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 17:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/12 17:09	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		05/04/12 17:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/04/12 17:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 17:09	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 LF2313.1201
Pace Project No.: 92117390

Sample: Trip Blank **Lab ID: 92117390009** Collected: 04/27/12 00:00 Received: 04/27/12 15:27 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		05/04/12 17:25	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/04/12 17:25	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/04/12 17:25	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/04/12 17:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/04/12 17:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/04/12 17:25	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/04/12 17:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/04/12 17:25	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/04/12 17:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/04/12 17:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/04/12 17:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/04/12 17:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/04/12 17:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/04/12 17:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		05/04/12 17:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/04/12 17:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/04/12 17:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/04/12 17:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/04/12 17:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/04/12 17:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/04/12 17:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/04/12 17:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/04/12 17:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/04/12 17:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/04/12 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/04/12 17:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/04/12 17:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/04/12 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/04/12 17:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/04/12 17:25	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/04/12 17:25	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/04/12 17:25	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/04/12 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/04/12 17:25	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/04/12 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/04/12 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/04/12 17:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/04/12 17:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/04/12 17:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/04/12 17:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/04/12 17:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/04/12 17:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/04/12 17:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/04/12 17:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/04/12 17:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/04/12 17:25	75-01-4	

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
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(828)254-7176

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

ANALYTICAL RESULTS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Sample: Trip Blank **Lab ID: 92117390009** Collected: 04/27/12 00:00 Received: 04/27/12 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/04/12 17:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/04/12 17:25	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/04/12 17:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/04/12 17:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/04/12 17:25	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

QC Batch: MERP/4212 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008

METHOD BLANK: 759256 Matrix: Water
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/09/12 12:46	

LABORATORY CONTROL SAMPLE: 759257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759258 759259

Parameter	Units	92117345011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	94	97	75-125	3	25	

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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

QUALITY CONTROL DATA

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

QC Batch: MPRP/10484 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008

METHOD BLANK: 756877 Matrix: Water
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	2.9J	5.0	05/01/12 20:17	
Barium	ug/L	ND	5.0	05/01/12 20:17	
Cadmium	ug/L	ND	1.0	05/01/12 20:17	
Chromium	ug/L	ND	5.0	05/01/12 20:17	
Lead	ug/L	ND	5.0	05/01/12 20:17	
Selenium	ug/L	ND	10.0	05/01/12 20:17	
Silver	ug/L	ND	5.0	05/01/12 20:17	

LABORATORY CONTROL SAMPLE: 756878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	480	96	80-120	
Barium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	491	98	80-120	
Chromium	ug/L	500	491	98	80-120	
Lead	ug/L	500	486	97	80-120	
Selenium	ug/L	500	482	96	80-120	
Silver	ug/L	250	243	97	80-120	

MATRIX SPIKE SAMPLE: 756879

Parameter	Units	92117345001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	493	99	75-125	
Barium	ug/L	111	500	583	94	75-125	
Cadmium	ug/L	ND	500	485	97	75-125	
Chromium	ug/L	ND	500	491	98	75-125	
Lead	ug/L	ND	500	474	95	75-125	
Selenium	ug/L	ND	500	486	97	75-125	
Silver	ug/L	ND	250	245	98	75-125	

SAMPLE DUPLICATE: 756880

Parameter	Units	92117345002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	1710	1720	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	2.5J		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 LF2313.1201
Pace Project No.: 92117390

SAMPLE DUPLICATE: 756880

Parameter	Units	92117345002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	
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 LF2313.1201
Pace Project No.: 92117390

QC Batch: MSV/19012 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008, 92117390009

METHOD BLANK: 759233 — Matrix: Water
Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008, 92117390009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,1-Dichloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,1-Dichloroethene	ug/L	ND	1.0	05/04/12 13:49	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/04/12 13:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/04/12 13:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/04/12 13:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/04/12 13:49	
1,2-Dichloroethane	ug/L	ND	1.0	05/04/12 13:49	
1,2-Dichloropropane	ug/L	ND	1.0	05/04/12 13:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/04/12 13:49	
2-Butanone (MEK)	ug/L	ND	5.0	05/04/12 13:49	
2-Hexanone	ug/L	ND	5.0	05/04/12 13:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/04/12 13:49	
Acetone	ug/L	ND	25.0	05/04/12 13:49	
Acrylonitrile	ug/L	ND	10.0	05/04/12 13:49	
Benzene	ug/L	ND	1.0	05/04/12 13:49	
Bromochloromethane	ug/L	ND	1.0	05/04/12 13:49	
Bromodichloromethane	ug/L	ND	1.0	05/04/12 13:49	
Bromoform	ug/L	ND	1.0	05/04/12 13:49	
Bromomethane	ug/L	ND	2.0	05/04/12 13:49	
Carbon disulfide	ug/L	ND	2.0	05/04/12 13:49	
Carbon tetrachloride	ug/L	ND	1.0	05/04/12 13:49	
Chlorobenzene	ug/L	ND	1.0	05/04/12 13:49	
Chloroethane	ug/L	ND	1.0	05/04/12 13:49	
Chloroform	ug/L	ND	1.0	05/04/12 13:49	
Chloromethane	ug/L	ND	1.0	05/04/12 13:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/04/12 13:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/04/12 13:49	
Dibromochloromethane	ug/L	ND	1.0	05/04/12 13:49	
Dibromomethane	ug/L	ND	1.0	05/04/12 13:49	
Ethylbenzene	ug/L	ND	1.0	05/04/12 13:49	
Iodomethane	ug/L	ND	5.0	05/04/12 13:49	
Methylene Chloride	ug/L	ND	1.0	05/04/12 13:49	
Styrene	ug/L	ND	1.0	05/04/12 13:49	
Tetrachloroethene	ug/L	ND	1.0	05/04/12 13:49	
Toluene	ug/L	ND	1.0	05/04/12 13:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/04/12 13:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/04/12 13:49	

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(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 LF2313.1201
Pace Project No.: 92117390

METHOD BLANK: 759233 Matrix: Water

Associated Lab Samples: 92117390001, 92117390002, 92117390003, 92117390004, 92117390005, 92117390006, 92117390007, 92117390008, 92117390009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/04/12 13:49	
Trichloroethene	ug/L	ND	1.0	05/04/12 13:49	
Trichlorofluoromethane	ug/L	ND	1.0	05/04/12 13:49	
Vinyl acetate	ug/L	ND	2.0	05/04/12 13:49	
Vinyl chloride	ug/L	ND	1.0	05/04/12 13:49	
Xylene (Total)	ug/L	ND	2.0	05/04/12 13:49	
1,2-Dichloroethane-d4 (S)	%	101	70-130	05/04/12 13:49	
4-Bromofluorobenzene (S)	%	101	70-130	05/04/12 13:49	
Dibromofluoromethane (S)	%	101	70-130	05/04/12 13:49	
Toluene-d8 (S)	%	99	70-130	05/04/12 13:49	

LABORATORY CONTROL SAMPLE: 759234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	41.7	83	70-130	
1,1-Dichloroethene	ug/L	50	47.6	95	70-132	
1,2,3-Trichloropropane	ug/L	50	46.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.8	88	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
1,2-Dichloropropane	ug/L	50	47.3	95	70-130	
1,4-Dichlorobenzene	ug/L	50	49.0	98	70-130	
2-Butanone (MEK)	ug/L	100	87.7	88	70-145	
2-Hexanone	ug/L	100	91.6	92	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.2	96	70-140	
Acetone	ug/L	100	99.2	99	50-175	
Acrylonitrile	ug/L	250	220	88	70-143	
Benzene	ug/L	50	48.3	97	70-130	
Bromochloromethane	ug/L	50	55.0	110	70-130	
Bromodichloromethane	ug/L	50	45.8	92	70-130	
Bromoform	ug/L	50	48.9	98	70-130	
Bromomethane	ug/L	50	58.6	117	54-130	F3
Carbon disulfide	ug/L	50	49.1	98	70-131	
Carbon tetrachloride	ug/L	50	49.0	98	70-132	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	49.1	98	64-134	
Chloroform	ug/L	50	49.1	98	70-130	
Chloromethane	ug/L	50	43.0	86	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.4	91	70-131	

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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 LF2313.1201
Pace Project No.: 92117390

LABORATORY CONTROL SAMPLE: 759234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	47.9	96	70-130	
Dibromomethane	ug/L	50	50.5	101	70-131	
Ethylbenzene	ug/L	50	46.9	94	70-130	
Iodomethane	ug/L	100	121	121	49-180	
Methylene Chloride	ug/L	50	48.9	98	63-130	
Styrene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	47.5	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.0	98	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	52.2	104	70-141	
Trichloroethene	ug/L	50	49.8	100	70-130	
Trichlorofluoromethane	ug/L	50	49.8	100	62-133	
Vinyl acetate	ug/L	100	88.9	89	66-157	
Vinyl chloride	ug/L	50	44.7	89	69-130	
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759235 759236

Parameter	Units	92117390007 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	53.8	53.8	108	108	70-166	0	30	
Benzene	ug/L	ND	50	50	46.5	45.8	93	92	70-148	2	30	
Chlorobenzene	ug/L	ND	50	50	55.4	53.2	111	106	70-146	4	30	
Toluene	ug/L	ND	50	50	52.9	52.4	106	105	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	56.5	55.6	113	111	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						101	101	70-130			
4-Bromofluorobenzene (S)	%						104	101	70-130			
Dibromofluoromethane (S)	%						101	101	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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2225 Riverside Dr.
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QUALIFIERS

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Madison Co. Closed LF2313.1201
Pace Project No.: 92117390

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92117390001	**MW-01 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390002	**MW-02 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390003	**MW-03 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390004	**MW-04 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390005	**BG Spring OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390006	**SW-01 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390007	**SW-02 OLD**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390008	**DW-01**	EPA 3010	MPRP/10484	EPA 6010	ICP/9654
92117390001	**MW-01 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390002	**MW-02 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390003	**MW-03 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390004	**MW-04 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390005	**BG Spring OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390006	**SW-01 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390007	**SW-02 OLD**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390008	**DW-01**	EPA 7470	MERP/4212	EPA 7470	MERC/4137
92117390001	**MW-01 OLD**	EPA 8260	MSV/19012		
92117390002	**MW-02 OLD**	EPA 8260	MSV/19012		
92117390003	**MW-03 OLD**	EPA 8260	MSV/19012		
92117390004	**MW-04 OLD**	EPA 8260	MSV/19012		
92117390005	**BG Spring OLD**	EPA 8260	MSV/19012		
92117390006	**SW-01 OLD**	EPA 8260	MSV/19012		
92117390007	**SW-02 OLD**	EPA 8260	MSV/19012		
92117390008	**DW-01**	EPA 8260	MSV/19012		
92117390009	**Trip Blank**	EPA 8260	MSV/19012		

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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

1565226

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To: Evan Yurkovich
Purchase Order No.:
Project Name: Madison Co. Closed Landfill
Project Number: 2313.1201

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Same
Address:
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)

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	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): App I VOCs	~~Metals 6010~~	Metals 6010	Hg 7470	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01 OLD	WT	G	4/27/12	958				5			X	X					X		X	X	X		-001
2	MW-02 OLD	WT	G	4/27/12	1044				5			X	X					X		X	X	X		-002
3	MW-03 OLD	WT	G	4/27/12	1137				5			X	X					X		X	X	X		-003
4	MW-04 OLD	WT	G	4/27/12	1233				5			X	X					X		X	X	X		-004
5	BG Spring- OLD	WT	G	4/27/12	1421				5			X	X					X		X	X	X		-005
6	SW-01 OLD	WT	G	4/27/12	1254				5			X	X					X		X	X	X		-006
7	SW-02 OLD	WT	G	4/27/12	1338				5			X	X					X		X	X	X		-007
8	DW-01	WT	G	4/27/12	1326				5			X	X					X		X	X	X		-008
9																								-009
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VOCs 8620 LowLevel	Parker / Altamont	4/27/12	1527	Joseph Sherd	4/27/12	15:27	5.5	Y	N	Y
Include MDL and										
Qualifiers if Applicable										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Parker Brooks

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/27/12

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.

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

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 19, 2011 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.07	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92117390

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

Courier (Circle): Fed Ex UPS USPS (Client) Commercial Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

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

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

Circle Thermometer Used: (IR Gun#2 -80344039) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add / (Subtract) 0.2 C

Corrected Cooler Temp.: 5.5 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LP 4/27/12

		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. Trip Blank not written on COC.
-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	LP
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: LP **Date:** 4/27/12 **SRF Review:** LP **Date:** 4/30/12

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)

APPENDIX C
Environmental Monitoring Form
and
Electronic Submittal of Environmental Monitoring Data 5802Apr2012 (CD only)

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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, EIT 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 27, 2012

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 — Project Geologist — (828) 281-3350

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

Signature — 6/19/12 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2044 GEOLOGIST JOEL D. LENK

231 Haywood Street, Asheville, North Carolina 28801

Facility Representative Address

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

Revised 6/2009