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 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)
Clay County Closed Municipal Solid Waste Facility	1160 Hinton Center Road (S.R. 1148), Hayesville, North Carolina 28904	22-01	.1600	November 30, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Robert Hastings, P.G. Project Geologist (828) 281-3350

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

Signature 2/22/12 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1906 GEOLOGIST ROBERT W. HASTINGS

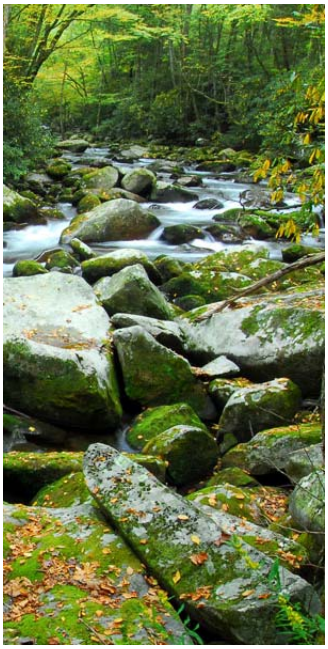
231 Haywood Street, Asheville, NC 28801

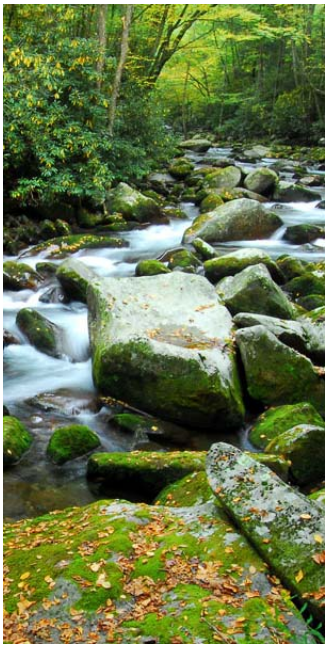
Facility Representative Address

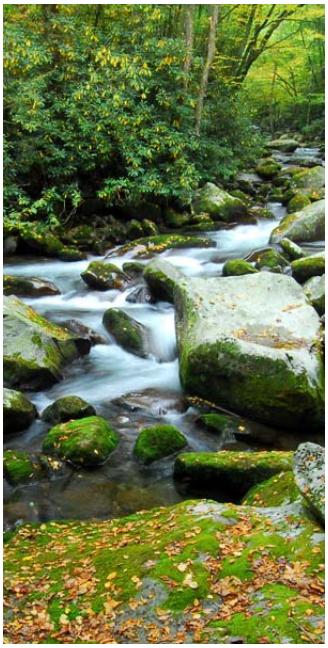
C-2185

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

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

November 2011
Water Quality Monitoring Report

Clay County Closed
Municipal Solid Waste Landfill

Clay County, North Carolina
Permit #22-01

February 22, 2012

Prepared for
Clay County, North Carolina

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

November 2011
Water Quality Monitoring Report

Clay County Closed
Municipal Solid Waste Landfill

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February 22, 2012

Robert Hastings, P.G.
Project Geologist

Table of Contents

1.0 Introduction 1

2.0 Methods 2

2.1 Groundwater and Surface Water Sampling 2

2.1.1 Groundwater Purging and Sampling Methods 2

2.1.2 Surface Water Sampling Methods 2

2.2 Sample Handling, Documentation, and Analysis 2

3.0 Analytical Results 4

3.1 Groundwater 4

3.1.1 Appendix I Metals (EPA Methods 6010 and 7470) 4

3.1.2 Appendix I VOCs (EPA Method 8260) 5

3.1.3 Field Parameters 6

3.2 Surface Water 6

3.2.1 Appendix I Metals (EPA Methods 6010 and 7470) 6

3.2.2 Appendix I VOCs (EPA Method 8260) 6

3.2.3 Field Parameters 6

4.0 Summary and Discussion 7

4.1 Groundwater Quality 7

4.2 Surface Water Quality 7

4.3 Future Activities 7

Figures

1. Site Location Map
2. Site Layout Map
3. Posted Groundwater Elevation Map

Tables

1. Summary of Groundwater Elevation Data
2. Summary of Laboratory Analyses Performed on Samples
3. Analytical Data and Field Parameters---November 2011
4. Solid Waste Section Limits Exceedance Notification
5. Water Quality Standards Exceedance Notification

Appendices

A. Survey Map and Data

B. Field Sheet and Certificate of Analysis

C. Laboratory Analytical Reports and Chain-of-Custody Documentation

1.0 Introduction

The Clay County Solid Waste Department maintains a solid waste facility located at 1160 Hinton Center Road (State Road 1148) in Hayesville, Clay County, North Carolina (Figure 1). The facility accepts solid waste from Clay County, and includes the following permitted components:

- A closed municipal solid waste (MSW) Landfill (closed landfill; Permit 22-01)
- An active transfer station (Permit 22-02T)

According to the *Landfill Gas Monitoring Plan* prepared by McGill Associates dated November 2010, the landfill was officially closed per the letter to the North Carolina Department of Environment and Natural Resources (DENR) dated December 21, 1995. The permit for the landfill requires annual monitoring of groundwater and surface water quality. This report describes a groundwater and surface water quality sampling event conducted in November 2011.

This report is being submitted in accordance with (1) monitoring requirements for closed landfills as stipulated in the DENR Division of Waste Management (DWM) Permit No. 22-01 and amendments dated April 19, 1990 issued to the Clay County Solid Waste Department as well as (2) requirements stipulated in the DENR Solid Waste Management Rules Title 15A, Subchapter 13B, Section .1600, of the North Carolina Administrative Code (15A NCAC 13B.1600).

This report presents analytical results and provides an evaluation of groundwater and surface water quality for the closed landfill.

2.0 Methods

2.1 Groundwater and Surface Water Sampling

The groundwater monitoring network consists of an upgradient, background monitoring well (WELL#1) and five downgradient monitoring wells (WELL#2, WELL#3, WELL#4, WELL#5, and WELL#6). WELL#1 is located in the northern portion of the landfill, north of an existing closed MSW disposal cell and Clay County's wood waste collection and processing area. WELL#2 is located in the southeast corner of the facility property on the north side of S.R. 1148, south of an existing closed MSW landfill cell. WELL#3 and WELL#4 are located along or near the southernmost property line of the landfill downgradient of an existing closed MSW landfill cell. WELL#5 and WELL#6 are located along the southwestern property line of the facility downgradient of an existing closed MSW landfill cell.

In October 2011, Samuel L. Sprinkle & Associates, P.A., a professional surveying firm certified in the state of North Carolina, surveyed the horizontal and vertical locations of the monitoring wells associated with Clay County Landfill. The certified survey data are presented in Appendix A of this report. Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth at each of the wells was measured and recorded. These data are presented in Table 1 and shown on Figure 3. Groundwater flow direction is interpreted to be generally to the southwest towards the Hiawassee River.

Closed landfill monitoring wells (WELL#1, WELL#2, WELL#3, WELL#4, WELL#5, and WELL#6) and surface water sample locations (UPSTREAM and DOWNSTREAM) were sampled by Environmental, Inc. of Sylva, North Carolina personnel on November 30, 2011 (Table 2). Monitoring well WELL#1 was not sampled due to casing damage in years 2009 and 2010. In March 2011, Clay County personnel repaired WELL#1 and a groundwater sample was collected during the November 2011 sampling event. Altamont instructed Environmental, Inc. regarding sampling procedures before the sampling event. Approximate sample locations are depicted on Figure 2.

2.1.1 Groundwater Purging and Sampling Methods

Prior to sample collection at each monitoring well, a round of field parameters consisting of pH, specific conductivity, turbidity, and temperature was measured and recorded. Water-level measurements and field parameters are included in Table 3; a field data sheet and certificate of analysis are presented in Appendix B. Groundwater monitoring wells were purged with a new disposable polyethylene bailer and a sample was collected.

2.1.2 Surface Water Sampling Methods

Surface water samples UPSTREAM and DOWNSTREAM were collected at designated locations along a minor unnamed tributary and the Hiawassee River, which flows adjacent to the western and southern site-boundary in a north-to-south direction (Figure 2). The surface water sample collected at the upstream location is assumed to represent surface water quality upstream of the closed landfill, while the surface water sample collected at the downstream location is assumed to represent surface water quality downstream of the closed landfill. One set of field parameters, including temperature, pH, specific conductivity, and turbidity, was measured and recorded at each surface water sampling location prior to sample collection (Table 3).

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to the closed landfill sampling locations are provided on the certificate of analysis provided by Environmental, Inc, and included in Appendix B. Water-level measurements and field parameters are also included in Table 3. Following sample collection,

groundwater and surface water samples were transported to Pace Analytical Services, Inc. (Pace), a laboratory certified in North Carolina, located in Asheville. Environmental, Inc. submitted the water samples collected from the monitoring wells and the surface water sampling locations to Pace for analysis as follows:

- Appendix I volatile organic compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Appendix I metals using EPA Methods 6010 and 7470

An equipment blank and trip blank, provided by the laboratory, were placed in the sample coolers and analyzed for Appendix I VOCs. Proper chain-of-custody documentation was followed during collection and transport of each sample. The laboratory analytical reports and chain-of-custody documentation are included in Appendix C. Laboratory analyses performed on the samples are summarized in Table 2.

3.0 Analytical Results

The laboratory analytical results for the groundwater and surface water samples collected at the closed landfill are compiled in Table 3, which is displayed in the Electronic Data Deliverable (EDD) format specified by the DENR Solid Waste Section (SWS) memorandum dated October 27, 2006. The laboratory analytical report issued by Pace for this sampling event is included as Appendix C.

As stipulated in the October 27, 2006 memorandum, non-detections were reported at method detection limit (MDL), and all concentrations exceeding the laboratory-specific MDL were reported and appropriately qualified (Tables 3, 4, and 5). 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, determined by the SWS, of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is greater than the laboratory MDL and less than the SWSL, the analytical result is qualified as estimated, and is flagged with a "*J*" qualifier (italicized J-flag). A "J" qualifier is used for parameters that are detected at estimated concentrations greater than the MDL but less than the laboratory's method reporting limit (MRL). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. Detected concentrations of constituents below the applicable SWSLs are summarized in Table 3, but are not reported in the text of this report, unless they exceed their applicable North Carolina water quality standards.

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

Table 3 presents laboratory analytical results from samples collected from the monitoring wells, surface water sampling locations, and the equipment and trip blank(s), as well as field parameters measured during collection of groundwater and surface water samples.

Table 4 presents all analytical results that were above the applicable SWSLs. Table 5 presents only the concentrations of analytes detected in groundwater and/or surface water samples that exceeded their respective 2L Standards, IMACs, GWPSs, or 2B Standards. In the referenced tables, the identification of a well ("WELL ID" on the tables) consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well "WELL#2" is identified on the tables as 2201-WELL#2.

3.1 Groundwater

Analytical results for groundwater samples collected from monitoring wells are discussed below and are summarized in Tables 3, 4, and 5. The laboratory analytical reports are included in Appendix C.

3.1.1 Appendix I Metals (EPA Methods 6010 and 7470)

The following metals were detected at concentrations above their associated SWSLs (Table 4):

- Barium (SWSL=100 micrograms per liter [µg/L]; 2L Standard=700 µg/L):

  WELL#3 (104 µg/L), WELL#4 (131 µg/L), WELL#5 (217 µg/L), and WELL#6 (110 µg/L)

- Chromium (SWSL=10 µg/L; 2L Standard=10 µg/L):

  WELL#1 (10.5 µg/L)
- Cobalt (SWSL=10 µg/L; IMAC Standard=1 µg/L):

  WELL#1 (21.8 µg/L), WELL#4 (23.5 µg/L), and WELL#5 (12.2 µg/L)
- Copper (SWSL=10 µg/L; 2L Standard=1,000 µg/L):

  WELL#1 (21.9 µg/L), WELL#4 (13.4 µg/L), and WELL#5 (12.6 µg/L)
- Lead (SWSL=10 µg/L; 2L Standard=15 µg/L):

  WELL#1 (17.4 µg/L)
- Mercury (SWSL=0.2 µg/L; 2L Standard=1 µg/L):

  WELL#5 (4.1 µg/L)
- Zinc (SWSL=10 µg/L; 2L Standard=1,000 µg/L):

  WELL#1 (20.4 µg/L), WELL#3 (23.6 µg/L), WELL#5 (22.9 µg/L)

The following metals were detected at concentrations above their respective water quality standards (Table 5):

- Chromium (2L Standard=10 µg/L):

  WELL#1 (10.5 µg/L)
- Cobalt (IMAC Standard=1 µg/L):

  WELL#1 (21.8 µg/L), WELL#3 (6.5 *J* µg/L), WELL#4 (23.5 µg/L), and WELL#5 (12.2 µg/L)
- Lead (2L Standard=15 µg/L):

  WELL#1 (17.4 µg/L)
- Mercury (2L Standard=1 µg/L):

  WELL#5 (4.1 µg/L)
- Vanadium (IMAC Standard=0.3 µg/L):

  WELL#1 (21.8 *J* µg/L), WELL#3 (8.1 *J* µg/L), WELL#5 (5.7 *J* µg/L), and WELL#6 (6.0 *J* µg/L)

The measured turbidity values for the groundwater samples from all of the monitoring wells ranged from 2.8 (for WELL#4) to 98.7 (for WELL#1) nephelometric turbidity units (NTUs) (Table 3 and Table 5).

3.1.2 Appendix I VOCs (EPA Method 8260)

The following VOCs were detected at concentrations equal to or above their associated SWSLs (Table 4):

- 1,4-dichlorobenzene (SWSL=1 µg/L; 2L Standard=6 µg/L):

  WELL#4 (3.3 µg/L), WELL#5 (1.7 µg/L), and WELL#6 (1.1 µg/L)
- Benzene (SWSL=1 µg/L; 2L Standard=1 µg/L):

  WELL#4 (1.2 µg/L)
- Cis-1,2-dichloroethene (SWSL=5 µg/L; 2L Standard=70 µg/L):

  WELL#4 (6.2 µg/L) and WELL#6 (5.0 µg/L)

- Methylene Chloride (SWSL=1 µg/L; 2L Standard= 5 µg/L):

  WELL#2 (2.3 µg/L) and WELL#4 (2.5 µg/L)
- Naphthalene (SWSL=1 µg/L; 2L Standard=6 µg/L):

  WELL#6 (19.4 µg/L)

The following VOCs were detected at concentrations above their respective water quality standards (Table 5):

- Benzene (2L Standard=1 µg/L):

  WELL#4 (1.2 µg/L)
- Naphthalene (2L Standard=6 µg/L):

  WELL#6 (19.4 µg/L)

3.1.3 Field Parameters

The pH readings obtained from samples collected from all six wells, WELL#1 (6.4 Standard Units [SU]), WELL#2 (6.3 SU), WELL#3 (6.1 SU), WELL#4 (5.4 SU), WELL#5 (5.8 SU), and WELL#6 (6.0 SU), were outside the acceptable range of 6.5 to 8.5 SU specified in 15A NCAC 02L .0202[c]. Although the results were outside the acceptable range, they appear to be consistent with historic pH readings and ranges that may be expected to be naturally occurring in the region.

3.2 Surface Water

Analytical results for surface water samples collected from Hiawassee River and its tributary are discussed below and are summarized in Table 3. The laboratory reports are included in Appendix C.

3.2.1 Appendix I Metals (EPA Methods 6010 and 7470)

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.

3.2.2 Appendix I VOCs (EPA Method 8260)

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

3.2.3 Field Parameters

The pH readings were obtained on November 30, 2011 for surface water samples. The pH readings measured in both samples were within the 2B Standard range established at 6.0 SU to 9.0 SU.

4.0 Summary and Discussion

The following discussion summarizes the results of the November 2011 water quality monitoring event.

4.1 Groundwater Quality

Analysis of data collected during the annual groundwater quality monitoring event conducted on November 30, 2011 at the Clay County closed landfill indicates that seven metals were detected in groundwater samples at concentrations above their respective SWSLs. The concentrations of four of these metals (chromium, cobalt, lead, mercury), and also vanadium, exceeded their respective 2L Standards or IMAC in one or more of the groundwater samples.

As described in Section 3.1.1, the turbidity values collected from monitoring well samples indicate that the samples contained solid particles from the surrounding formation in which the wells are screened. Naturally occurring metals tend to adsorb to the surfaces of these solid particles. The concentrations of metals detected in these groundwater samples may represent both the dissolved metals in the groundwater and the metals that were adsorbed to the solid particles, potentially resulting in false positive results.

Two VOCs, benzene in WELL#4 and naphthalene in WELL#6, exceeded the applicable groundwater quality standards. No other VOCs were detected at concentrations above groundwater quality standards at the closed landfill.

The pH readings obtained for each well were below the 2L Standard acceptable pH range. However, as discussed in the section 3.1.3, the pH readings appear to be consistent with historical pH readings and ranges that may be expected to be naturally occurring in the region.

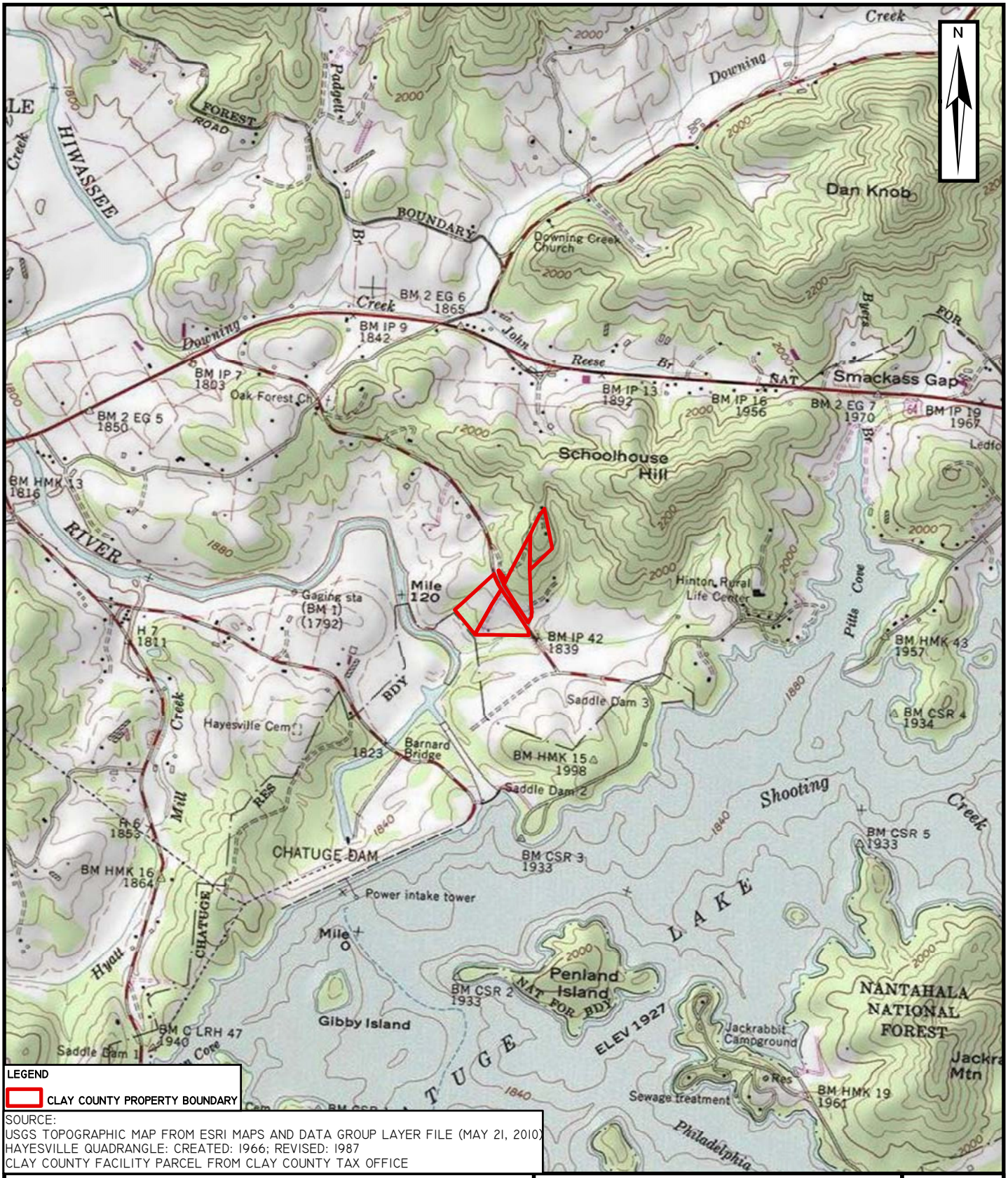
4.2 Surface Water Quality

No metals or VOCs were detected at concentrations above their respective SWSLs and/ or 2B Standard in the surface water samples. The pH readings were in the acceptable range.

4.3 Future Activities

Environmental, Inc. will continue to collect groundwater and surface water samples on an annual basis at the Clay County Closed Municipal Solid Waste Landfill. Altamont will continue to report the analytical results. The next sampling event is scheduled for the month of November in 2012.

FIGURES



LEGEND

CLAY COUNTY PROPERTY BOUNDARY

SOURCE:
USGS TOPOGRAPHIC MAP FROM ESRI MAPS AND DATA GROUP LAYER FILE (MAY 21, 2010)
HAYESVILLE QUADRANGLE: CREATED: 1966; REVISED: 1987
CLAY COUNTY FACILITY PARCEL FROM CLAY COUNTY TAX OFFICE

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

CLAY COUNTY CLOSED MUNICIPAL
SOLID WASTE LANDFILL
1160 HINTON CENTER ROAD (S.R. 1148)
HAYESVILLE, NORTH CAROLINA 28904

FIGURE

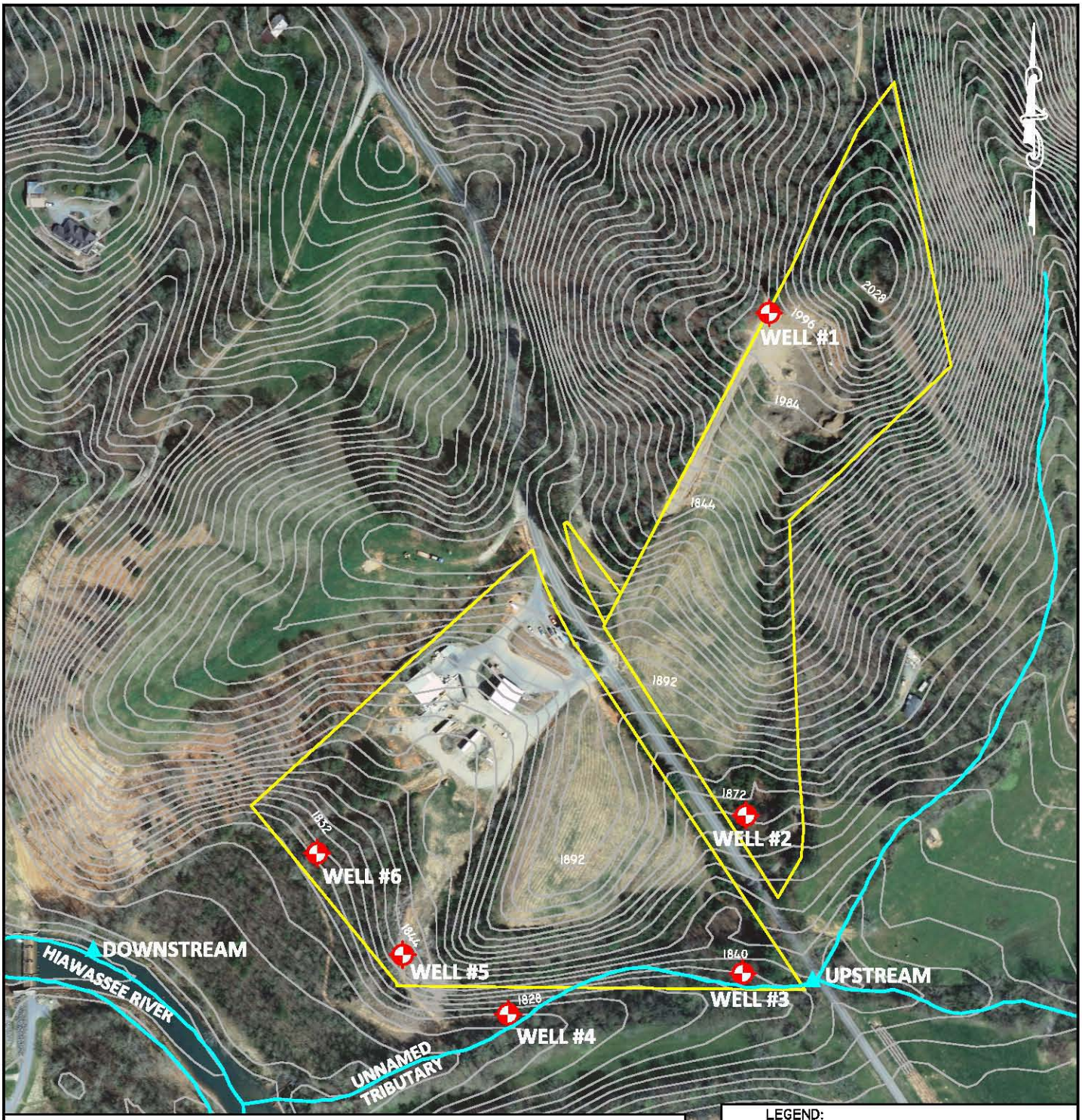
1

DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: ENVIRONMENTAL, INC.
DATE: 02/20/2012

SCALE

0 500 1,000 2,000 FEET

P:\ENVIRONMENTAL INC\CLAY COUNTY\FIGURES\FIGURE 1 SITE LOCATION MAP REVISED.MXD



NOTES:
1. AERIAL IMAGERY FROM NC ONE MAP GIS WEBSITE (DATED 2010).
2. WELL LOCATION BASED ON SURVEY BY SAMUEL L. SPRINKLE & ASSOCIATES, P.A. COMPLETED ON OCTOBER 18, 2011.
3. SURFACE WATER LOCATIONS ARE APPROXIMATE AND PROVIDED BY ENVIRONMENTAL, INC. FIELD PERSONNEL.
4. CLAY COUNTY PROPERTY BOUNDARY OBTAINED FROM CLAY COUNTY.
5. TOPOGRAPHIC CONTOURS FROM NC DEPARTMENT OF TRANSPORTATION (DOT) GIS WEBSITE.

LEGEND:
- MONITORING WELL
- SURFACE WATER LOCATION
- 4-FOOT INTERVAL TOPOGRAPHIC CONTOURS
- CLAY COUNTY PROPERTY BOUNDARY

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PROJECT MANAGER: CHRIS GILBERT
CLIENT: CLAY COUNTY
DATE: 02/20/2012

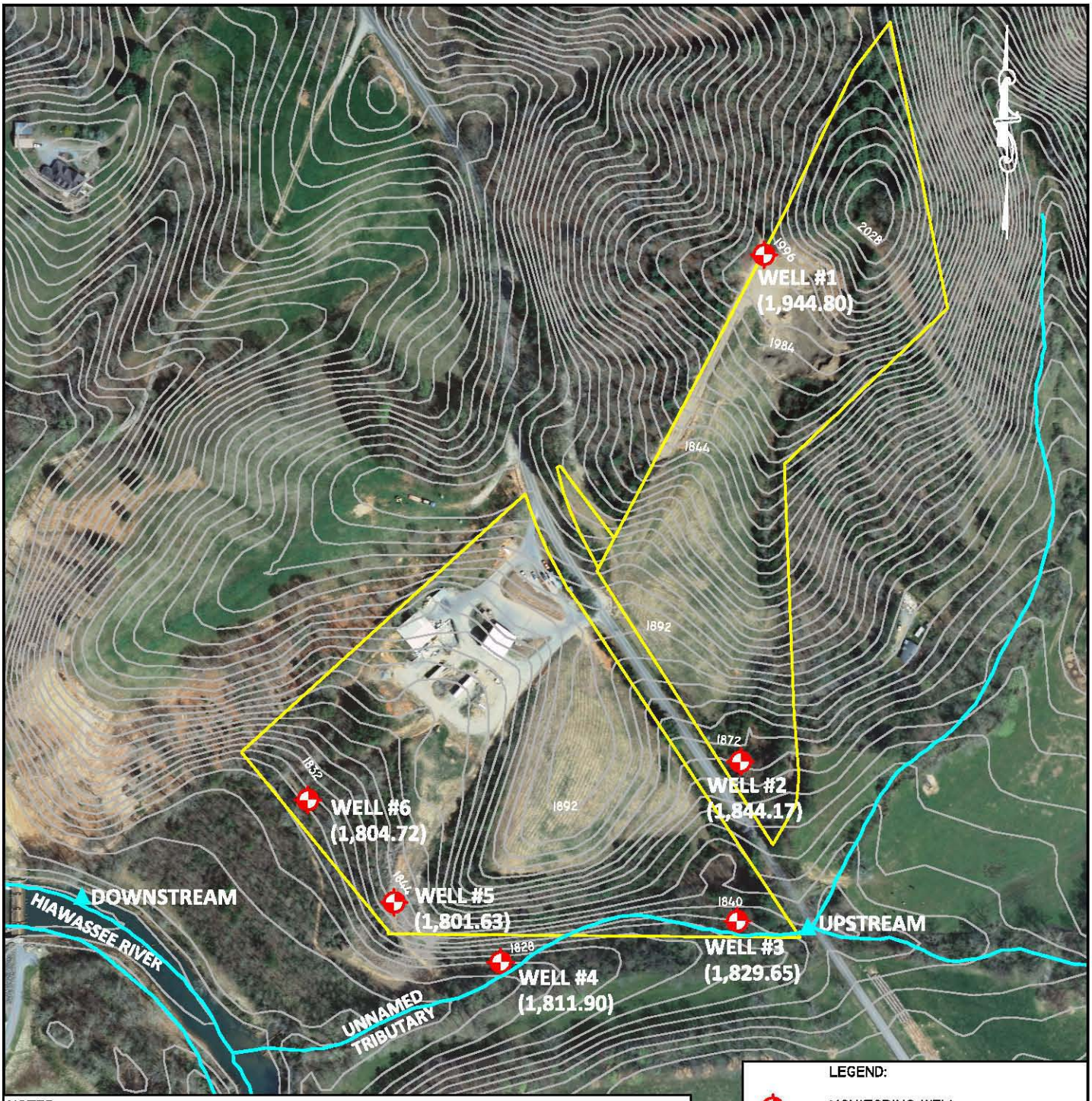
SCALE (FEET)
150' 0 150' 300'
1" = 300'

SITE LAYOUT MAP

CLAY COUNTY CLOSED MUNICIPAL SOLID WASTE LANDFILL
1160 HINTON CENTER ROAD (S.R. 1148)
HAYESVILLE, NORTH CAROLINA 28904

FIGURE 2

FILE PATH: P:\DUKE - LF GROUNDWATER REPORTS-2369\2369.08 MNS LF#2\2010\FIGURES\FIGURE 2-SITE LAYOUT MAP.MXD



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3. SURFACE WATER LOCATIONS ARE APPROXIMATE AND PROVIDED BY ENVIRONMENTAL, INC. FIELD PERSONNEL.
4. GROUNDWATER ELEVATIONS BASED ON DEPTH-TO-WATER MEASUREMENTS OBTAINED ON NOVEMBER 30, 2011.
5. CLAY COUNTY PROPERTY BOUNDARY OBTAINED FROM CLAY COUNTY.
6. TOPOGRAPHIC CONTOURS FROM NC DEPARTMENT OF TRANSPORTATION (DOT) GIS WEBSITE.

LEGEND:
- MONITORING WELL
- SURFACE WATER LOCATION
- 4-FOOT INTERVAL TOPOGRAPHIC CONTOURS
- CLAY COUNTY PROPERTY BOUNDARY
- (1,944.80) GROUNDWATER ELEVATION

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DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: CLAY COUNTY
DATE: 02/20/2012

SCALE (FEET)
150' 0 150' 300'
1" = 300'

POSTED GROUNDWATER ELEVATION MAP

CLAY COUNTY CLOSED MUNICIPAL SOLID WASTE LANDFILL
1160 HINTON CENTER ROAD
HAYESVILLE, NORTH CAROLINA

FIGURE 3

FILE PATH: P:\DUKE - LF GROUNDWATER REPORTS-2369\2369.08 MNS LF#2\2010\FIGURES\FIGURE 3-POSTED GW ELEVATIONS.MXD

TABLES

Table 1
Summary of Groundwater Elevation Data
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

WELL ID	GROUND ELEVATION	TOP OF CASING (TOC) ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION
			2011	
	(feet NAVD 1988)	(feet NAVD 1988)	(feet TOC)	(feet NAVD 1988)
2201-WELL#1	1992.05	1,993.10	48.3	1,944.80
2201-WELL#2	1868.94	1,869.77	25.6	1,844.17
2201-WELL#3	1835.67	1,837.75	8.1	1,829.65
2201-WELL#4	1819.19	1,821.30	9.4	1,811.90
2201-WELL#5	1840.53	1,841.63	40.0	1,801.63
2201-WELL#6	1825.64	1,826.52	21.8	1,804.72

Notes:
1. TOC = top of casing.
2. bgs = below ground surface.
3. NAVD = North American Vertical Datum 1988.
4. All monitoring wells were surveyed on October 18, 2011 by Samuel L. Sprinkle & Associates, P.A..
5. Depth to water for all monitoring wells was measured on November 30, 2011.

Table 2
Summary of Laboratory Analyses Performed on Samples
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

Groundwater Samples			
Sample Name	Date Collected	Appendix I Metals	VOCs
		EPA 6010, EPA 7470	EPA 8260
2201-WELL#1	11/30/2011	X	X
2201-WELL#2	11/30/2011	X	X
2201-WELL#3	11/30/2011	X	X
2201-WELL#4	11/30/2011	X	X
2201-WELL#5	11/30/2011	X	X
2201-WELL#6	11/30/2011	X	X
2201-EQUIPMENTBLANK	11/30/2011	X	X
2201-TRIPBLANK	11/30/2011		X
Surface Water Samples			
Sample Name	Date Collected	Appendix I Metals	VOCs
		EPA 6010, EPA 7470	EPA 8260
2201-UPSTREAM	11/30/2011	X	X
2201-DOWNSTREAM	11/30/2011	X	X

Notes:
1. VOCs = volatile organic compounds

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#1	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-39-3	15	Barium	80.8	ug/L	J	EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#1	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-47-3	51	Chromium	**10.5**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-48-4	53	Cobalt	**21.8**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-50-8	54	Copper	21.9	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7439-92-1	131	Lead	**17.4**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/05/2011	12/06/2011	40
22-01	2201-WELL#1	7440-02-0	152	Nickel	8.7	ug/L	J	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-62-2	209	Vanadium	**21.8**	ug/L	J	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-66-6	213	Zinc	20.4	ug/L		EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12

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FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#1	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#1	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#1	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#1	SW320	320	pH	**6.4**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#1	SW323	323	Specific Conductivity	132	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#1	SW325	325	Temperature	14.5	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#1	SW330	330	Turbidity	98.7	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#1	SW318	318	Depth to Water	48.3	ft TOC							11/30/2011			
22-01	2201-WELL#1	SW411	411	Total Well Depth	65.2	ft TOC							11/30/2011			
22-01	2201-WELL#2	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-39-3	15	Barium	51.3	ug/L	J	EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#2	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40

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22-01	2201-WELL#2	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/05/2011	12/06/2011	40
22-01	2201-WELL#2	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-34-3	75	1,1-Dichloroethane	2.5	ug/L	J	EPA 8260	0.32	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	78-93-3	141	2-Butanone (MEK)	8.3	ug/L	J	EPA 8260	0.96	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/08/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#2	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-09-2	140	Methylene Chloride	2.3	ug/L		EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#2	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#2	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#2	SW320	320	pH	**6.3**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#2	SW323	323	Specific Conductivity	46.0	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#2	SW325	325	Temperature	11.7	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#2	SW330	330	Turbidity	3.8	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#2	SW318	318	Depth to Water	25.6	ft TOC							11/30/2011			
22-01	2201-WELL#2	SW411	411	Total Well Depth	48.9	ft TOC							11/30/2011			
22-01	2201-WELL#3	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-39-3	15	Barium	104	ug/L		EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#3	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-48-4	53	Cobalt	**6.5**	ug/L	*J*	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-50-8	54	Copper	8.2	ug/L	*J*	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7439-92-1	131	Lead	8.9	ug/L	*J*	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/05/2011	12/06/2011	40

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Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

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22-01	2201-WELL#3	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-62-2	209	Vanadium	**8.1**	ug/L	*J*	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-66-6	213	Zinc	23.6	ug/L		EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12

Table 3
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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#3	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-WELL#3	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#3	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#3	SW320	320	pH	**6.1**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#3	SW323	323	Specific Conductivity	52.4	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#3	SW325	325	Temperature	12.4	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#3	SW330	330	Turbidity	34.9	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#3	SW318	318	Depth to Water	8.1	ft TOC							11/30/2011			
22-01	2201-WELL#3	SW411	411	Total Well Depth	18.1	ft TOC							11/30/2011			
22-01	2201-WELL#4	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-39-3	15	Barium	131	ug/L		EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#4	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-48-4	53	Cobalt	**23.5**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-50-8	54	Copper	13.4	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/07/2011	12/08/2011	40
22-01	2201-WELL#4	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#4	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-34-3	75	1,1-Dichloroethane	1.8	ug/L	J	EPA 8260	0.32	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	106-46-7	71	1,4-Dichlorobenzene	3.3	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	71-43-2	16	Benzene	**1.2**	ug/L		EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-90-7	39	Chlorobenzene	1.1	ug/L	J	EPA 8260	0.23	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-00-3	41	Chloroethane	1.6	ug/L	J	EPA 8260	0.54	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	156-59-2	78	cis-1,2-Dichloroethene	6.2	ug/L		EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/08/2011	12

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FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#4	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-09-2	140	Methylene Chloride	2.5	ug/L		EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	1634-04-4	369	Methyl-tert-butyl ether	1.3	ug/L		EPA 8260	0.21	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#4	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#4	SW320	320	pH	**5.4**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#4	SW323	323	Specific Conductivity	199	µS		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#4	SW325	325	Temperature	14.8	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#4	SW330	330	Turbidity	2.8	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#4	SW318	318	Depth to Water	9.4	ft TOC							11/30/2011			
22-01	2201-WELL#4	SW411	411	Total Well Depth	21.4	ft TOC							11/30/2011			
22-01	2201-WELL#5	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-39-3	15	Barium	217	ug/L		EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#5	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-48-4	53	Cobalt	**12.2**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-50-8	54	Copper	12.6	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7439-97-6	132	Mercury	**4.1**	ug/L		EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/07/2011	12/08/2011	40
22-01	2201-WELL#5	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-62-2	209	Vanadium	**5.7**	ug/L	*J*	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-66-6	213	Zinc	22.9	ug/L		EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/08/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#5	75-34-3	75	1,1-Dichloroethane	1.7	ug/L	J	EPA 8260	0.32	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	106-46-7	71	1,4-Dichlorobenzene	1.7	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	156-59-2	78	cis-1,2-Dichloroethene	2.5	ug/L	J	EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	1634-04-4	369	Methyl-tert-butyl ether	1.9	ug/L		EPA 8260	0.21	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/08/2011	12

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#5	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#5	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#5	SW320	320	pH	**5.8**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#5	SW323	323	Specific Conductivity	259	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#5	SW325	325	Temperature	13.7	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#5	SW330	330	Turbidity	17.7	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#5	SW318	318	Depth to Water	40.0	ft TOC							11/30/2011			
22-01	2201-WELL#5	SW411	411	Total Well Depth	69.5	ft TOC							11/30/2011			
22-01	2201-WELL#6	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-39-3	15	Barium	110	ug/L		EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-WELL#6	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/07/2011	12/08/2011	40
22-01	2201-WELL#6	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-62-2	209	Vanadium	**6.0**	ug/L	*J*	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-34-3	75	1,1-Dichloroethane	1.3	ug/L	*J*	EPA 8260	0.32	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/08/2011	12

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

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22-01	2201-WELL#6	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	106-46-7	71	1,4-Dichlorobenzene	1.1	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-00-3	41	Chloroethane	1.1	ug/L	*J*	EPA 8260	0.54	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	156-59-2	78	cis-1,2-Dichloroethene	5.0	ug/L		EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	SW359	359	m&p-Xylene	2.8	ug/L		EPA 8260	0.66	2.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	91-20-3	148	Naphthalene	**19.4**	ug/L		EPA 8260	0.24	1.0	10	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	96-47-6	408	o-Xylene	3.5	ug/L		EPA 8260	0.23	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#6	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-WELL#6	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-WELL#6	SW320	320	pH	**6.0**	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-WELL#6	SW323	323	Specific Conductivity	175	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-WELL#6	SW325	325	Temperature	16.7	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-WELL#6	SW330	330	Turbidity	6.4	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-WELL#6	SW318	318	Depth to Water	21.8	ft TOC							11/30/2011			
22-01	2201-WELL#6	SW411	411	Total Well Depth	64.9	ft TOC							11/30/2011			
22-01	2201-UPSTREAM	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-39-3	15	Barium	7.4	ug/L	*J*	EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-UPSTREAM	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/05/2011	12/06/2011	40
22-01	2201-UPSTREAM	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-UPSTREAM	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12

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22-01	2201-UPSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-UPSTREAM	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-UPSTREAM	7782-44-7	356	Dissolved Oxygen	NA	mg/L										
22-01	2201-UPSTREAM	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-UPSTREAM	SW320	320	pH	7.0	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-UPSTREAM	SW323	323	Specific Conductivity	30.6	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-UPSTREAM	SW325	325	Temperature	13.0	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-UPSTREAM	SW330	330	Turbidity	< 1.0	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-DOWNSTREAM	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-39-3	15	Barium	7.9	ug/L	J	EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-DOWNSTREAM	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/05/2011	12/06/2011	40
22-01	2201-DOWNSTREAM	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-DOWNSTREAM	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-DOWNSTREAM	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-DOWNSTREAM	7782-44-7	356	Dissolved Oxygen	NA	mg/L										

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

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22-01	2201-DOWNSTREAM	SW336	336	Oxygen Reduction Potential	NA	mV										
22-01	2201-DOWNSTREAM	SW320	320	pH	6.8	SU		SM4500HB					11/30/2011		11/30/2011	5090
22-01	2201-DOWNSTREAM	SW323	323	Specific Conductivity	23.6	µmhos		SM 2510B	1.0				11/30/2011		12/12/2011	37754
22-01	2201-DOWNSTREAM	SW325	325	Temperature	12.6	°C		SM 2250B					11/30/2011		11/30/2011	5090
22-01	2201-DOWNSTREAM	SW330	330	Turbidity	1.2	NTU		SM 2130B	1.0				11/30/2011		12/01/2011	37754
22-01	2201-EQUIPMENTBLANK	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-39-3	15	Barium	5.0	ug/L	U	EPA 6010	5.0	5.0	100	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	11/30/2011	12/07/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/08/2011	40
22-01	2201-EQUIPMENTBLANK	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-EQUIPMENTBLANK	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-EQUIPMENTBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	11/30/2011		12/07/2011	12

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22-01	2201-TRIPBLANK	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	87-61-6	371	1,2,3-Trichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	120-82-1	199	1,2,4-Trichlorobenzene	0.35	ug/L	U	EPA 8260	0.35	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	541-73-1	70	1,3-Dichlorobenzene	0.24	ug/L	U	EPA 8260	0.24	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	594-20-7	84	2,2-Dichloropropane	0.13	ug/L	U	EPA 8260	0.13	1.0	15	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-86-1	360	Bromobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	87-68-3	120	Hexachloro-1,3-butadiene	0.71	ug/L	U	EPA 8260	0.71	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	11/30/2011		12/07/2011	12

Table 3
Analytical Data and Field Parameters—November 2011
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-TRIPBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	11/30/2011		12/07/2011	12
22-01	2201-TRIPBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	11/30/2011		12/07/2011	12

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 in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
4. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the method detection limit (MDL). "J" is used for parameters detected at estimated concentrations above the MDL but below the laboratory's method reporting limit (MRL) and the Solid Waste Section Limit (SWSL). An italicized *J*-flag is a data qualifier that reflects a detected concentration that is greater than the laboratory's MRL and MDL but less than the SWSL. A blank cell indicates that there is no qualifier associated with the reported result.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "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.
7. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "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.
9. "DILUTION FACTOR" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "EXTRACTION DATE" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
12. "ANALYSIS DATE" is the date on which the sample was analyzed by the lab.
13. "NE" means Not Established. "NA" means Not Analyzed. Blank cells indicate that there is no information relevant to the respective row.
14. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
15. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
16. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on June 13, 2011).
17. Depth to water was measured from top of casing (TOC).

Table 4
Solid Waste Section Limits Exceedance Notification
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
22-01	2201-WELL#1	7440-47-3	51	Chromium	**10.5**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-48-4	53	Cobalt	**21.8**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-50-8	54	Copper	21.9	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7439-92-1	131	Lead	**17.4**	ug/L		EPA 6010	5.0	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#1	7440-66-6	213	Zinc	20.4	ug/L		EPA 6010	10.0	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#2	75-09-2	140	Methylene Chloride	2.3	ug/L		EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#3	7440-39-3	15	Barium	104	ug/L		EPA 6010	5	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#3	7440-66-6	213	Zinc	23.6	ug/L		EPA 6010	10	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-39-3	15	Barium	131	ug/L		EPA 6010	5	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-48-4	53	Cobalt	**23.5**	ug/L		EPA 6010	5	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	7440-50-8	54	Copper	13.4	ug/L		EPA 6010	5	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#4	106-46-7	71	1,4-Dichlorobenzene	3.3	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	71-43-2	16	Benzene	**1.2**	ug/L		EPA 8260	0.25	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	156-59-2	78	cis-1,2-Dichloroethene	6.2	ug/L		EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#4	75-09-2	140	Methylene Chloride	2.5	ug/L		EPA 8260	0.97	2.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#5	7440-39-3	15	Barium	217	ug/L		EPA 6010	5	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-48-4	53	Cobalt	**12.2**	ug/L		EPA 6010	5	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7440-50-8	54	Copper	12.6	ug/L		EPA 6010	5	5.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	7439-97-6	132	Mercury	**4.1**	ug/L		EPA 7470	0.1	0.20	0.2	1	11/30/2011	12/07/2011	12/08/2011	40
22-01	2201-WELL#5	7440-66-6	213	Zinc	22.9	ug/L		EPA 6010	10	10.0	10	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#5	106-46-7	71	1,4-Dichlorobenzene	1.7	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	7440-39-3	15	Barium	110	ug/L		EPA 6010	5	5.0	100	1	11/30/2011	12/06/2011	12/07/2011	40
22-01	2201-WELL#6	106-46-7	71	1,4-Dichlorobenzene	1.1	ug/L		EPA 8260	0.33	1.0	1	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	156-59-2	78	cis-1,2-Dichloroethene	5.0	ug/L		EPA 8260	0.19	1.0	5	1	11/30/2011		12/08/2011	12
22-01	2201-WELL#6	91-20-3	148	Naphthalene	**19.4**	ug/L		EPA 8260	0.24	1.0	10	1	11/30/2011		12/08/2011	12

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 in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
4. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the method detection limit (MDL). "J" is used for parameters detected at estimated concentrations above the MDL but below the laboratory's method reporting limit (MRL) and the Solid Waste Section Limit (SWSL). An italicized *J* -flag is a data qualifier that reflects a detected concentration that is greater than the laboratory's MRL and MDL but less than the SWSL. A blank cell indicates that there is no qualifier associated with the reported result.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "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.
7. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "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.
9. "DILUTION FACTOR" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "EXTRACTION DATE" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
12. "ANALYSIS DATE" is the date on which the sample was analyzed by the lab.
13. "NE" means Not Established. "NA" means Not Analyzed. Blank cells indicate that there is no information relevant to the respective row.
14. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
15. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
16. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on June 13, 2011).

Table 5
Water Quality Standards Exceedance Notification
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	GROUNDWATER QUALITY STANDARD	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	COLLECT DATE	CAUSE AND SIGNIFICANCE
2201	2201-WELL#1	7440-47-3	51	Chromium	10	**10.5**	ug/L		EPA 6010	5.0	5.0	10	11/30/2011	Possibly naturally occurring. Turbidity of sample at 98.7 NTU.
2201	2201-WELL#1	7440-48-4	53	Cobalt	1	**21.8**	ug/L		EPA 6010	5.0	5.0	10	11/30/2011	
2201	2201-WELL#1	7439-92-1	131	Lead	15	**17.4**	ug/L		EPA 6010	5.0	5.0	10	11/30/2011	
2201	2201-WELL#1	7440-62-2	209	Vanadium	0.3	**21.8**	ug/L	*J*	EPA 6010	5.0	5.0	25	11/30/2011	
22-01	2201-WELL#1	SW320	320	pH	6.5 - 8.5	**6.4**	SU						11/30/2011	Consistent with historic readings.
22-01	2201-WELL#2	SW320	320	pH	6.5 - 8.5	**6.3**	SU						11/30/2011	Consistent with historic readings.
2201	2201-WELL#3	7440-48-4	53	Cobalt	1	**6.5**	ug/L	*J*	EPA 6010	5.0	5.0	10	11/30/2011	Possibly naturally occurring. Turbidity of sample at 34.9 NTU.
2201	2201-WELL#3	7440-62-2	209	Vanadium	0.3	**8.1**	ug/L	*J*	EPA 6010	5.0	5.0	25	11/30/2011	
22-01	2201-WELL#3	SW320	320	pH	6.5 - 8.5	**6.1**	SU						11/30/2011	Consistent with historic readings.
2201	2201-WELL#4	7440-48-4	53	Cobalt	1	**23.5**	ug/L		EPA 6010	5.0	5.0	10	11/30/2011	Possibly naturally occurring. Turbidity of sample at 2.8 NTU.
2201	2201-WELL#4	71-43-2	16	Benzene	1	**1.2**	ug/L		EPA 8260	0.25	1.0	1	11/30/2011	Anthropogenic.
22-01	2201-WELL#4	SW320	320	pH	6.5 - 8.5	**5.4**	SU						11/30/2011	Consistent with historic readings.
2201	2201-WELL#5	7440-48-4	53	Cobalt	1	**12.2**	ug/L		EPA 6010	5.0	5.0	10	11/30/2011	Possibly naturally occurring. Turbidity of sample at 17.7 NTU.
2201	2201-WELL#5	7439-97-6	132	Mercury	1	**4.1**	ug/L		EPA 7470	0.10	0.20	0.2	11/30/2011	
2201	2201-WELL#5	7440-62-2	209	Vanadium	0.3	**5.7**	ug/L	*J*	EPA 6010	5.0	5.0	25	11/30/2011	
22-01	2201-WELL#5	SW320	320	pH	6.5 - 8.5	**5.8**	SU						11/30/2011	Consistent with historic readings.
2201	2201-WELL#6	7440-62-2	209	Vanadium	0.3	**6.0**	ug/L	*J*	EPA 6010	5.0	5.0	25	11/30/2011	Possibly naturally occurring. Turbidity of sample at 6.4 NTU.
2201	2201-WELL#6	91-20-3	148	Naphthalene	6	**19.4**	ug/L		EPA 8260	0.24	1.0	10	11/30/2011	Unknown.
22-01	2201-WELL#6	SW320	320	pH	6.5 - 8.5	**6.0**	SU						11/30/2011	Consistent with historic readings.

Notes:

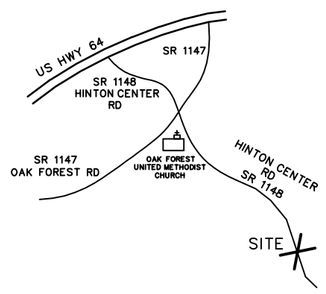
1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "GROUNDWATER QUALITY STANDARD" refers to the 2L Standard or Groundwater Protection Standard (GWPS) for groundwater.
4. "RESULT" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
5. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the method detection limit (MDL). "J" is used for parameters detected at estimated concentrations above the MDL but below the laboratory's method reporting limit (MRL) and the Solid Waste Section Limit (SWSL). An italicized *J* -flag is a data qualifier that reflects a detected concentration that is greater than the laboratory's MRL and MDL but less than the SWSL. 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. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.
12. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard or GWPS (if no 2L Standard exists).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. GWPS is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on June 13, 2011).

APPENDICES

APPENDIX A

Survey Map and Data

NOT TO SCALE



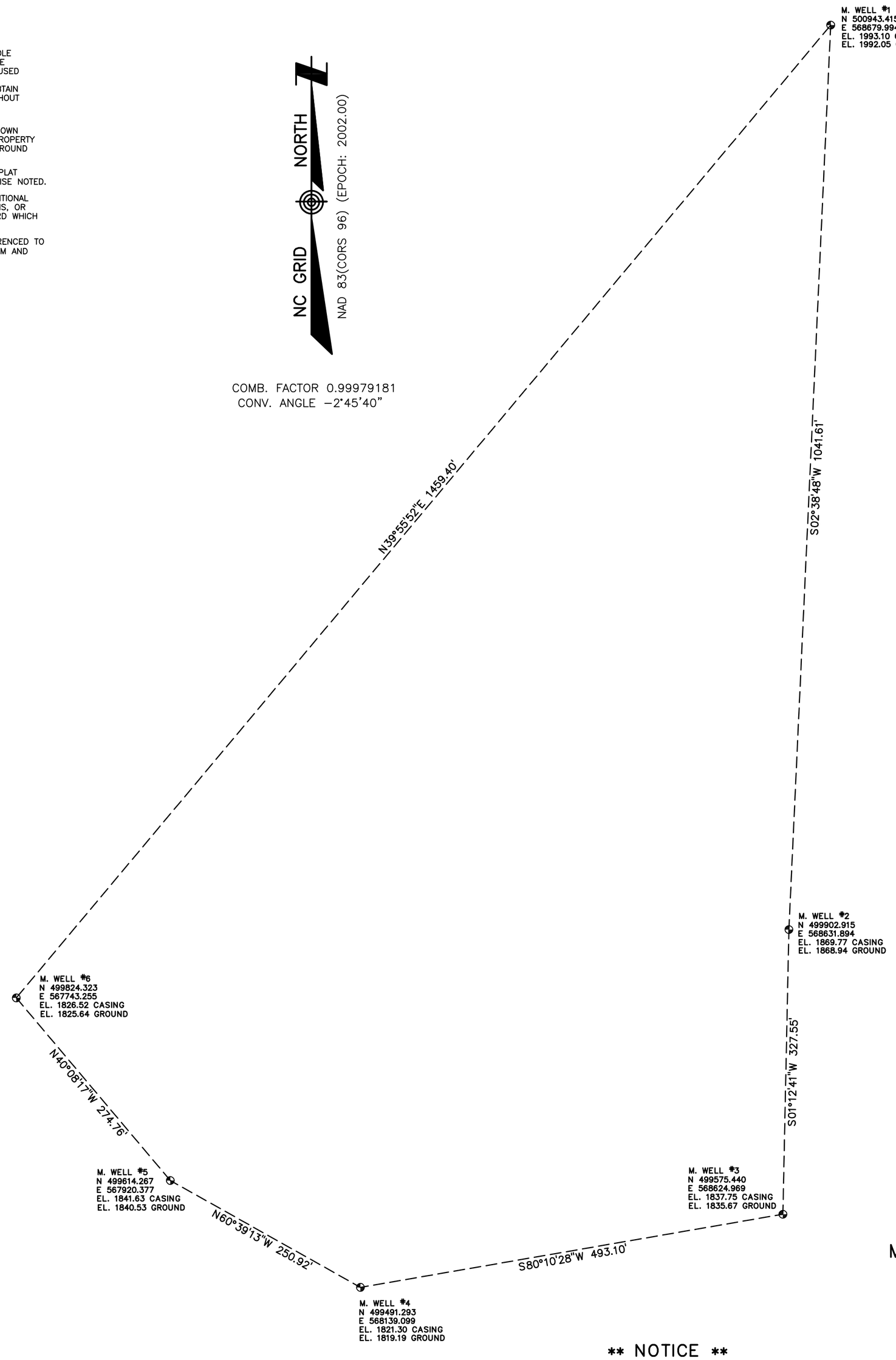
VICINITY SKETCH

DWG. NO. 7650

NOTES:

1. THIS SURVEY WAS PREPARED FOR THE SOLE BENEFIT OF OUR CLIENT AS NAMED IN THE TITLE OF THIS PLAT, AND IS NOT TO BE USED FOR THE BENEFIT OF A THIRD PARTY TO PURCHASE, TO SECURE FINANCING, OR OBTAIN TITLE INSURANCE ON THIS PROPERTY, WITHOUT THE EXPRESS WRITTEN CONSENT OF THE SIGNING SURVEYOR.
2. ANY UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAT ARE APPROXIMATE. THE PROPERTY MAY ALSO BE SERVED BY OTHER UNDERGROUND UTILITIES WHICH WERE NOT LOCATED.
3. ALL DISTANCES SHOWN ON THIS SURVEY PLAT ARE NC GRID DISTANCES UNLESS OTHERWISE NOTED.
4. THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL RIGHTS-OF-WAY, EASEMENTS, RESTRICTIONS, OR OTHER SIMILAR ENCUMBRANCES OF RECORD WHICH ARE NOT GRAPHICALLY DEPICTED HEREON.
5. NC GRID COORDINATES ARE SHOWN REFERENCED TO NAD 83(CORS 96) (EPOCH:2002.00) DATUM AND ELEVATIONS ON NAVD 1988 DATUM.

REVISION:	DATE:



LEGEND:

- EXISTING IRON PIPE / IRON ROD (AS NOTED)
- IRON ROD SET (IRS) #5 REBAR UNLESS OTHERWISE NOTED
- NAIL / SPIKE (AS NOTED)
- CONCRETE MONUMENT (AS NOTED)
- EXISTING CORNER, TYPE NOTED
- WIRE FENCE
- OVERHEAD UTILITY LINE(S)
- POINT
- CONTROL MARKER IR & CAP
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE

DWG. NO. 7650

NOTE: ALL AREA COMPUTED BY COORDINATE COMPUTATIONS

SAMUEL L. SPRINKLE & ASSOCIATES, P.A.

PROFESSIONAL LAND SURVEYORS ©

NCBELS LICENSE NO. C-2784

33 NELSON ROAD

HAYESVILLE, NORTH CAROLINA 28904

TEL. 828-389-3048 & 828-524-5867

FAX: 828-389-4786

WEBSITE: *www.sprinklesurveying.com*

SURVEY BY SLS PLAT BY SLS

** NOTICE **

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY SAMUEL L. SPRINKLE, PLS L-3629, ON 10/18/11. THIS MEDIUM SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

LOCATION SURVEY

MONITORING WELLS - OLD CLAY COUNTY LANDFILL SITE

ALTAMONT ENVIROMENTAL, INC.

HIAWASSEE TOWNSHIP CLAY COUNTY, N.C.

OCTOBER 18, 2011 SCALE: 1 IN. = 100 FT.

100 0 100 200 300

GRAPHIC SCALE - FEET

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*-------------------------------------------------------------------------------
* Prepared by: Samuel L. Sprinkle & Associates, PA
* NC GRID COORDINATES   Coord File: 7650.crd  10/18/11
* Combined Factor: 0.99979181  DATUM: NAD 83(CORS 96)(EPOCH:2002.00)& NAVD 1988
*-------------------------------------------------------------------------------

Pt ID Code       Northing        Easting Elevation Description
 1004        500943.41532   568679.99384   1993.10 top casing MW#1
 1005        500943.41609   568679.59737   1992.29 top conc pad
 1006        500943.23964   568681.26105   1992.05 ground

Pt ID Code       Northing        Easting Elevation Description
 1027        499902.91544   568631.89350   1869.77 top casing MW#2
 1028        499902.63626   568632.32210   1869.07 top conc pad
 1029        499902.46696   568633.31660   1868.94 ground

Pt ID Code       Northing        Easting Elevation Description
 1031        499575.44045   568624.96924   1837.75 top casing MW#3
 1032        499575.39465   568624.45920   1835.97 top conc pad
 1033        499575.19359   568623.58511   1835.67 ground

Pt ID Code       Northing        Easting Elevation Description
 1014        499491.29289   568139.09967   1821.30 top casing MW#4
 1015        499491.87953   568139.47473   1819.44 top conc pad
 1016        499492.84807   568139.66452   1819.19 ground

Pt ID Code       Northing        Easting Elevation Description
 1009        499614.26742   567920.37670   1841.63 top of casing MW#5
 1010        499614.29220   567919.90150   1840.61 top conc pad
 1011        499615.49664   567920.10399   1840.53 ground

Pt ID Code       Northing        Easting Elevation Description
 1019        499824.32282   567743.25461   1826.52 top casing MW#6
 1020        499824.63379   567743.01514   1825.76 top conc pad
 1021        499825.68114   567742.95894   1825.64 ground
```

APPENDIX B

Field Sheet and Certificate of Analysis

ENVIRONMENTAL Inc.
Water & Wastewater Services
Cullowhee, NC

Mailing Address: PO Box 954, Cullowhee, NC 28723
Physical Address: 50 West Sylva Shopping Area, Sylva, NC 28779 (828) 586-5588
Physical Address: 240-D Swannanoa River Road, Asheville, NC 28805 (828) 350-8704
Toll Free: (800) 213-4035, Fax: (828) 586-0800, Email: environmentalinc@aol.com

Field Certification #5090
Wastewater Laboratory Certification #57
Water Laboratory Certification # 37754 and #37797

Clay County Water and Sewer
PO Box 838
Hayesville, NC 28904

11/30/11

Re: Clay County Landfills

Field Sheet Collection Date: 11/30/11

Wells	1	2	3	5	4	6	Upstream	Downstream
Time	11:15	10:25	10:45	1445	1415	1345	1530	1515
Water Level	48.3	25.6'	8.1'	40.0'	9.4'	21.8		–
Bottom of the Well	65.2	48.9'	18.1'	69.5'	21.4'	64.9		–
Temp	14.5	11.7	12.4	~~14.5~~ 13.7	14.8	16.7	13.0	12.6
pH	6.35	6.25	6.1	~~5.9~~ 5.8	5.4	6.0	7.0	6.8
Pipe	2"	2"	2"	2"	2"	2"	–	–

Rec'd 11/30/11 1720
Anthony Crona

ENVIRONMENTAL Inc. Water & Wastewater Services Cullowhee, NC

P.O. Box 954 Cullowhee, NC 28723
50 West Sylva Shopping Center Sylva, NC 28779
Phone (828) 586-5588 (800) 213-4035
FAX (828) 586-0800
E-mail environmentalinc@aol.com

Certificate of Analysis

Client Name: Clay County Landfill
Address: c/o 50 West Sylva Shopping Center
Sylva, NC 28779

Collection Date: 11/30/2011
Date Received: 11/30/2011

RESULTS*

Sample Identification: Upstream (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	13.0	-----	° C	11/30/2011	SM 2250 B	1
pH	7.0	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	30.6	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	<1.0	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: Downstream (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	12.6	-----	° C	11/30/2011	SM 2250 B	1
pH	6.8	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	23.6	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	1.2	1.0	NTU	12/1/2011	SM 2130B	

Anthony Tirona
Anthony Tirona, Laboratory Supervisor

1/3/12
Date

Report prepared: 1/3/2012 1:23 PM

Client Name: Clay County Landfill

Collection Date: 11/30/2011
Date Received: 11/30/2011

Sample Identification: MW#1 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	14.5	-----	° C	11/30/2011	SM 2250 B	1
pH	6.4	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	132	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	98.7	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: MW#2 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	11.7	-----	° C	11/30/2011	SM 2250 B	1
pH	6.3	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	46.0	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	3.8	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: MW#3 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	12.4	-----	° C	11/30/2011	SM 2250 B	1
pH	6.1	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	52.4	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	34.9	1.0	NTU	12/1/2011	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 11/30/2011
Date Received: 11/30/2011

Sample Identification: MW#4 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	14.8	-----	° C	11/30/2011	SM 2250 B	1
pH	5.4	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	199	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	2.8	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: MW#5 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	13.7	-----	° C	11/30/2011	SM 2250 B	1
pH	5.8	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	259	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	17.7	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: MW#6 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	16.7	-----	° C	11/30/2011	SM 2250 B	1
pH	6.0	-----	Std Units	11/30/2011	SM 4500 HB	1
Specific Conductance	175	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	6.4	1.0	NTU	12/1/2011	SM 2130B	

Sample Identification: Equipment Blank (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Specific Conductance	1.6	1.0	µmhos	12/12/2011	SM 2510B	
Turbidity	<1.0	1.0	NTU	12/1/2011	SM 2130B	

1. pH and temperature taken in the field on 11/30/11 at the time of collection.
* This report amends the report prepared on 12/21/11. This report displays correct dates for collection and receipt, and analysis dates for field pH and temperature with their respective values.

APPENDIX C

Laboratory Analytical Reports and Chain-of-Custody Documentation

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

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(828)254-7176

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

December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107491001	**WELL # 1 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

Sample: WELL # 1 CLAY COUNTY **Lab ID: 92107491001** Collected: 11/30/11 11:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-38-2	
Barium	**80.8**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:32	7440-43-9	
Chromium	**10.5**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-47-3	
Cobalt	**21.8**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-48-4	
Copper	**21.9**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-50-8	
Lead	**17.4**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7439-92-1	
Nickel	**8.7**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:32	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:32	7440-28-0	
Vanadium	**21.8**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:32	7440-62-2	
Zinc	**20.4**	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/05/11 14:25	12/06/11 15:30	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 02:20	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 02:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 02:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 02:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 02:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 02:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 02:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 02:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 02:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 02:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 02:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 02:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 02:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 02:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 02:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 02:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 02:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 02:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 02:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 02:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 02:20	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

Sample: WELL # 1 CLAY COUNTY **Lab ID: 92107491001** Collected: 11/30/11 11:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 02:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 02:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 02:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 02:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 02:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 02:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 02:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 02:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 02:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 02:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 02:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 02:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 02:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 02:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 02:20	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 02:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 02:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 02:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 02:20	127-18-4	
Toluene	ND	ug/L	1.0	1		12/07/11 02:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 02:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 02:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 02:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 02:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 02:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 02:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 02:20	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 02:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 02:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/07/11 02:20	460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1		12/07/11 02:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/07/11 02:20	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		12/07/11 02:20	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

QC Batch: MERP/3902
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107491001

METHOD BLANK: 694378
Matrix: Water
Associated Lab Samples: 92107491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/11 14:16	

LABORATORY CONTROL SAMPLE: 694379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694380 694381

Parameter	Units	92107473004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694382 694383

Parameter	Units	92107486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	104	75-125	2	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107491001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

QC Batch: MSV/17550
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107491001

METHOD BLANK: 695800
Matrix: Water
Associated Lab Samples: 92107491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/07/11 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	12/07/11 00:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
2-Hexanone	ug/L	ND	5.0	12/07/11 00:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/07/11 00:13	
Acetone	ug/L	ND	25.0	12/07/11 00:13	
Benzene	ug/L	ND	1.0	12/07/11 00:13	
Bromobenzene	ug/L	ND	1.0	12/07/11 00:13	
Bromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromoform	ug/L	ND	1.0	12/07/11 00:13	
Bromomethane	ug/L	ND	2.0	12/07/11 00:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/11 00:13	
Chlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
Chloroethane	ug/L	ND	1.0	12/07/11 00:13	
Chloroform	ug/L	ND	1.0	12/07/11 00:13	
Chloromethane	ug/L	ND	1.0	12/07/11 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Dibromomethane	ug/L	ND	1.0	12/07/11 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Diisopropyl ether	ug/L	ND	1.0	12/07/11 00:13	
Ethylbenzene	ug/L	ND	1.0	12/07/11 00:13	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

METHOD BLANK: 695800 Matrix: Water

Associated Lab Samples: 92107491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/11 00:13	
m&p-Xylene	ug/L	ND	2.0	12/07/11 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/11 00:13	
Methylene Chloride	ug/L	ND	2.0	12/07/11 00:13	
Naphthalene	ug/L	ND	1.0	12/07/11 00:13	
o-Xylene	ug/L	ND	1.0	12/07/11 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/11 00:13	
Styrene	ug/L	ND	1.0	12/07/11 00:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/11 00:13	
Toluene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Trichloroethene	ug/L	ND	1.0	12/07/11 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Vinyl acetate	ug/L	ND	2.0	12/07/11 00:13	
Vinyl chloride	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane-d4 (S)	%	95	70-130	12/07/11 00:13	
4-Bromofluorobenzene (S)	%	96	70-130	12/07/11 00:13	
Dibromofluoromethane (S)	%	108	70-130	12/07/11 00:13	
Toluene-d8 (S)	%	90	70-130	12/07/11 00:13	

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.0	114	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-132	
1,1-Dichloropropene	ug/L	50	44.0	88	70-130	
1,2,3-Trichlorobenzene	ug/L	50	68.3	137	70-135	L0
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	67.6	135	70-134	L0
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
1,2-Dichloropropane	ug/L	50	44.8	90	70-130	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	54.6	109	70-130	
2,2-Dichloropropane	ug/L	50	42.8	86	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	F3
2-Chlorotoluene	ug/L	50	48.7	97	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.2	97	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	70-140	
Acetone	ug/L	100	92.7	93	50-175	
Benzene	ug/L	50	45.1	90	70-130	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	55.8	112	54-130	
Carbon tetrachloride	ug/L	50	58.9	118	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	35.1	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	58.4	117	70-130	
Dibromomethane	ug/L	50	54.5	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.4	79	56-130	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.8	92	70-130	
Methylene Chloride	ug/L	50	46.4	93	63-130	
Naphthalene	ug/L	50	65.8	132	70-138	
o-Xylene	ug/L	50	53.5	107	70-130	
p-Isopropyltoluene	ug/L	50	67.1	134	70-130	L0
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	44.3	89	62-133	
Vinyl acetate	ug/L	100	73.0	73	66-157	
Vinyl chloride	ug/L	50	43.1	86	69-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698369 698370

Parameter	Units	92107493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.6	55.1	113	110	70-166	3	
Benzene	ug/L	ND	50	50	57.5	55.7	115	111	70-148	3	
Chlorobenzene	ug/L	ND	50	50	53.3	51.2	107	102	70-146	4	
Toluene	ug/L	ND	50	50	52.7	51.2	105	102	70-155	3	
Trichloroethene	ug/L	ND	50	50	54.9	53.2	110	106	69-151	3	
1,2-Dichloroethane-d4 (S)	%						114	115	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Dibromofluoromethane (S)	%						116	117	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 1 11/30
Pace Project No.: 92107491

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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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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1490073

Section A Required Client Information:

Company: Environmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals Appx I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107491
1	Well # 1 Clay County	WT	G			11-30-11	1117	145	4			X							X		92107491001
2													X					X			"
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Bickson	11-30-11	1720	[illegible]	11/30/11	1720				
	[illegible]	12/1/11	1038A	[illegible]	12/1/11	10:38	4.2	Y	~	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107491

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: [illegible]

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCUR Rev. [illegible] 12/8/11 [illegible] 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107492001	**WELL # 2 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

Sample: WELL # 2 CLAY COUNTY **Lab ID: 92107492001** Collected: 11/30/11 11:28 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-38-2	
Barium	**51.3**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:37	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-48-4	
Copper	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:37	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:37	7440-28-0	
Vanadium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:37	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:37	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/05/11 14:25	12/06/11 15:32	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/11 17:00	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/11 17:00	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/11 17:00	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/11 17:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/11 17:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/11 17:00	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/11 17:00	74-83-9	
2-Butanone (MEK)	**8.3**	ug/L	5.0	1		12/08/11 17:00	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/11 17:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/11 17:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/11 17:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/11 17:00	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:00	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/08/11 17:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/11 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/11 17:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/11 17:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/11 17:00	75-71-8	
1,1-Dichloroethane	**2.5**	ug/L	1.0	1		12/08/11 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/11 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:00	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

Sample: WELL # 2 CLAY COUNTY **Lab ID: 92107492001** Collected: 11/30/11 11:28 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:00	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/11 17:00	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/11 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/11 17:00	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/11 17:00	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/11 17:00	99-87-6	
Methylene Chloride	**2.3**	ug/L	2.0	1		12/08/11 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/11 17:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/08/11 17:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/11 17:00	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/11 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/11 17:00	127-18-4	
Toluene	ND	ug/L	1.0	1		12/08/11 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/11 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/11 17:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/11 17:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/11 17:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/11 17:00	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/08/11 17:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/11 17:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		12/08/11 17:00	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		12/08/11 17:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/11 17:00	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		12/08/11 17:00	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

QC Batch: MERP/3902
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107492001

METHOD BLANK: 694378
Matrix: Water
Associated Lab Samples: 92107492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/11 14:16	

LABORATORY CONTROL SAMPLE: 694379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694380 694381

Parameter	Units	92107473004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694382 694383

Parameter	Units	92107486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	104	75-125	2	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107492001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

QC Batch: MSV/17569
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107492001

METHOD BLANK: 697196
Matrix: Water
Associated Lab Samples: 92107492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/08/11 16:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
2-Butanone (MEK)	ug/L	ND	5.0	12/08/11 16:34	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
2-Hexanone	ug/L	ND	5.0	12/08/11 16:34	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/08/11 16:34	
Acetone	ug/L	ND	25.0	12/08/11 16:34	
Benzene	ug/L	ND	1.0	12/08/11 16:34	
Bromobenzene	ug/L	ND	1.0	12/08/11 16:34	
Bromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromoform	ug/L	ND	1.0	12/08/11 16:34	
Bromomethane	ug/L	ND	2.0	12/08/11 16:34	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 16:34	
Chlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
Chloroethane	ug/L	ND	1.0	12/08/11 16:34	
Chloroform	ug/L	ND	1.0	12/08/11 16:34	
Chloromethane	ug/L	ND	1.0	12/08/11 16:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Dibromomethane	ug/L	ND	1.0	12/08/11 16:34	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Diisopropyl ether	ug/L	ND	1.0	12/08/11 16:34	
Ethylbenzene	ug/L	ND	1.0	12/08/11 16:34	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

METHOD BLANK: 697196 Matrix: Water

Associated Lab Samples: 92107492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 16:34	
m&p-Xylene	ug/L	ND	2.0	12/08/11 16:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 16:34	
Methylene Chloride	ug/L	ND	2.0	12/08/11 16:34	
Naphthalene	ug/L	ND	1.0	12/08/11 16:34	
o-Xylene	ug/L	ND	1.0	12/08/11 16:34	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 16:34	
Styrene	ug/L	ND	1.0	12/08/11 16:34	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 16:34	
Toluene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Trichloroethene	ug/L	ND	1.0	12/08/11 16:34	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Vinyl acetate	ug/L	ND	2.0	12/08/11 16:34	
Vinyl chloride	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/08/11 16:34	
4-Bromofluorobenzene (S)	%	94	70-130	12/08/11 16:34	
Dibromofluoromethane (S)	%	106	70-130	12/08/11 16:34	
Toluene-d8 (S)	%	94	70-130	12/08/11 16:34	

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	70-130	
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	45.2	90	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	46.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	70-135	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
2,2-Dichloropropane	ug/L	50	47.8	96	58-145	
2-Butanone (MEK)	ug/L	100	129	129	70-145	
2-Chlorotoluene	ug/L	50	51.7	103	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	134	134	70-144	F3
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-140	
Acetone	ug/L	100	179	179	50-175	F3,L0
Benzene	ug/L	50	48.3	97	70-130	
Bromobenzene	ug/L	50	49.9	100	70-130	
Bromochloromethane	ug/L	50	48.7	97	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	48.8	98	70-130	
Bromomethane	ug/L	50	36.3	73	54-130	
Carbon tetrachloride	ug/L	50	60.6	121	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	42.9	86	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	34.9	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dibromomethane	ug/L	50	51.8	104	70-131	
Dichlorodifluoromethane	ug/L	50	28.9	58	56-130	F3
Diisopropyl ether	ug/L	50	44.3	89	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	45.5	91	63-130	
Naphthalene	ug/L	50	47.9	96	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	54.6	109	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	50.7	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	42.2	84	62-133	
Vinyl acetate	ug/L	100	78.2	78	66-157	
Vinyl chloride	ug/L	50	45.5	91	69-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 697198 697199

Parameter	Units	92107495001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.5	53.3	105	106	70-166	2	
Benzene	ug/L	1.2	50	50	56.0	55.6	110	109	70-148	1	
Chlorobenzene	ug/L	1.1	50	50	56.4	56.0	111	110	70-146	1	
Toluene	ug/L	ND	50	50	52.8	52.1	106	104	70-155	1	
Trichloroethene	ug/L	ND	50	50	59.3	58.8	118	117	69-151	1	
1,2-Dichloroethane-d4 (S)	%						97	99	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Dibromofluoromethane (S)	%						105	108	70-130		
Toluene-d8 (S)	%						94	94	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 2 11/30
Pace Project No.: 92107492

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1490074

Section A Required Client Information:

Company: Enviornmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC	Metals Appl 1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107492
1	Well #2 Clay County	WT	G			11-30-11	1128	11.7	4			X							X			92107492001
2													X							X		"
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Bledsoe	11-30-11	1720	[illegible]	11/30/11	1720				
	[illegible]	12/1/11	1038	[illegible]	12/1/11	10:38	4.2	Y	~	x

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107492

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 12/1/11

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] 12/8/11 SCUR Review: [signature] 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107493001	**WELL # 3 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

Sample: WELL # 3 CLAY COUNTY **Lab ID: 92107493001** Collected: 11/30/11 11:32 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-38-2	
Barium	**104**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:42	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-47-3	
Cobalt	**6.5**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-48-4	
Copper	**8.2**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-50-8	
Lead	**8.9**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:42	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:42	7440-28-0	
Vanadium	**8.1**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:42	7440-62-2	
Zinc	**23.6**	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:42	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/05/11 14:25	12/06/11 15:35	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 03:11	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 03:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 03:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 03:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 03:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 03:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 03:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 03:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 03:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 03:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 03:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 03:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 03:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 03:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 03:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 03:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 03:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 03:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 03:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 03:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 03:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 03:11	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

Sample: WELL # 3 CLAY COUNTY **Lab ID: 92107493001** Collected: 11/30/11 11:32 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 03:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 03:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 03:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 03:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 03:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 03:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 03:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 03:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 03:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 03:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 03:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 03:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 03:11	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 03:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 03:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 03:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 03:11	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 03:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 03:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 03:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 03:11	127-18-4	
Toluene	ND	ug/L	1.0	1		12/07/11 03:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 03:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 03:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 03:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 03:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 03:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 03:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 03:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 03:11	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 03:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 03:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/07/11 03:11	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		12/07/11 03:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/07/11 03:11	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		12/07/11 03:11	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

QC Batch: MERP/3902
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107493001

METHOD BLANK: 694378
Matrix: Water
Associated Lab Samples: 92107493001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/11 14:16	

LABORATORY CONTROL SAMPLE: 694379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694380 694381

Parameter	Units	92107473004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694382 694383

Parameter	Units	92107486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	104	75-125	2	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107493001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107493001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

QC Batch: MSV/17550
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107493001

METHOD BLANK: 695800
Matrix: Water
Associated Lab Samples: 92107493001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/07/11 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	12/07/11 00:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
2-Hexanone	ug/L	ND	5.0	12/07/11 00:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/07/11 00:13	
Acetone	ug/L	ND	25.0	12/07/11 00:13	
Benzene	ug/L	ND	1.0	12/07/11 00:13	
Bromobenzene	ug/L	ND	1.0	12/07/11 00:13	
Bromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromoform	ug/L	ND	1.0	12/07/11 00:13	
Bromomethane	ug/L	ND	2.0	12/07/11 00:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/11 00:13	
Chlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
Chloroethane	ug/L	ND	1.0	12/07/11 00:13	
Chloroform	ug/L	ND	1.0	12/07/11 00:13	
Chloromethane	ug/L	ND	1.0	12/07/11 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Dibromomethane	ug/L	ND	1.0	12/07/11 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Diisopropyl ether	ug/L	ND	1.0	12/07/11 00:13	
Ethylbenzene	ug/L	ND	1.0	12/07/11 00:13	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

METHOD BLANK: 695800 Matrix: Water

Associated Lab Samples: 92107493001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/11 00:13	
m&p-Xylene	ug/L	ND	2.0	12/07/11 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/11 00:13	
Methylene Chloride	ug/L	ND	2.0	12/07/11 00:13	
Naphthalene	ug/L	ND	1.0	12/07/11 00:13	
o-Xylene	ug/L	ND	1.0	12/07/11 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/11 00:13	
Styrene	ug/L	ND	1.0	12/07/11 00:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/11 00:13	
Toluene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Trichloroethene	ug/L	ND	1.0	12/07/11 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Vinyl acetate	ug/L	ND	2.0	12/07/11 00:13	
Vinyl chloride	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane-d4 (S)	%	95	70-130	12/07/11 00:13	
4-Bromofluorobenzene (S)	%	96	70-130	12/07/11 00:13	
Dibromofluoromethane (S)	%	108	70-130	12/07/11 00:13	
Toluene-d8 (S)	%	90	70-130	12/07/11 00:13	

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.0	114	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-132	
1,1-Dichloropropene	ug/L	50	44.0	88	70-130	
1,2,3-Trichlorobenzene	ug/L	50	68.3	137	70-135	L0
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	67.6	135	70-134	L0
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
1,2-Dichloropropane	ug/L	50	44.8	90	70-130	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	54.6	109	70-130	
2,2-Dichloropropane	ug/L	50	42.8	86	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	F3
2-Chlorotoluene	ug/L	50	48.7	97	70-130	

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(828)254-7176

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.2	97	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	70-140	
Acetone	ug/L	100	92.7	93	50-175	
Benzene	ug/L	50	45.1	90	70-130	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	55.8	112	54-130	
Carbon tetrachloride	ug/L	50	58.9	118	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	35.1	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	58.4	117	70-130	
Dibromomethane	ug/L	50	54.5	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.4	79	56-130	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.8	92	70-130	
Methylene Chloride	ug/L	50	46.4	93	63-130	
Naphthalene	ug/L	50	65.8	132	70-138	
o-Xylene	ug/L	50	53.5	107	70-130	
p-Isopropyltoluene	ug/L	50	67.1	134	70-130	L0
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	44.3	89	62-133	
Vinyl acetate	ug/L	100	73.0	73	66-157	
Vinyl chloride	ug/L	50	43.1	86	69-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698369 698370

Parameter	Units	92107493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.6	55.1	113	110	70-166	3	
Benzene	ug/L	ND	50	50	57.5	55.7	115	111	70-148	3	
Chlorobenzene	ug/L	ND	50	50	53.3	51.2	107	102	70-146	4	
Toluene	ug/L	ND	50	50	52.7	51.2	105	102	70-155	3	
Trichloroethene	ug/L	ND	50	50	54.9	53.2	110	106	69-151	3	
1,2-Dichloroethane-d4 (S)	%						114	115	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Dibromofluoromethane (S)	%						116	117	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 3 11/30
Pace Project No.: 92107493

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1490075

Section A Required Client Information:

Company: Enviornmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107493
1	Well #3 Clay County	WT	G			113011	1132	0	4			X						X			92107493001
2								124					X						X		11
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Brenda Bickson	11-30-11	1720	[illegible]	11/30/11	1720				
	[illegible]	12/1/11	1038	[illegible]	12/1/11	10:38	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107493

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: [illegible]

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [illegible] 12/8/11 [illegible] 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107495001	**WELL # 4 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

Sample: WELL # 4 CLAY COUNTY **Lab ID: 92107495001** Collected: 11/30/11 14:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-38-2	
Barium	**131**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:47	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-47-3	
Cobalt	**23.5**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-48-4	
Copper	**13.4**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:47	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:47	7440-28-0	
Vanadium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:47	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/07/11 16:45	12/08/11 12:24	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/11 17:25	67-64-1	
Benzene	**1.2**	ug/L	1.0	1		12/08/11 17:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/11 17:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/11 17:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/11 17:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/11 17:25	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/11 17:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/11 17:25	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/11 17:25	56-23-5	
Chlorobenzene	**1.1**	ug/L	1.0	1		12/08/11 17:25	108-90-7	
Chloroethane	**1.6**	ug/L	1.0	1		12/08/11 17:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/11 17:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/11 17:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/08/11 17:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/11 17:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/11 17:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/11 17:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:25	541-73-1	
1,4-Dichlorobenzene	**3.3**	ug/L	1.0	1		12/08/11 17:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/11 17:25	75-71-8	
1,1-Dichloroethane	**1.8**	ug/L	1.0	1		12/08/11 17:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/11 17:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:25	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

Sample: WELL # 4 CLAY COUNTY **Lab ID: 92107495001** Collected: 11/30/11 14:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	**6.2**	ug/L	1.0	1		12/08/11 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/11 17:25	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/11 17:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/11 17:25	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/11 17:25	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/11 17:25	99-87-6	
Methylene Chloride	**2.5**	ug/L	2.0	1		12/08/11 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/11 17:25	108-10-1	
Methyl-tert-butyl ether	**1.3**	ug/L	1.0	1		12/08/11 17:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/11 17:25	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/11 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/11 17:25	127-18-4	
Toluene	ND	ug/L	1.0	1		12/08/11 17:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/11 17:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/11 17:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/11 17:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/11 17:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/11 17:25	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/08/11 17:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/11 17:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/08/11 17:25	460-00-4	
Dibromofluoromethane (S)	104	%	70-130	1		12/08/11 17:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/08/11 17:25	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/08/11 17:25	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

QC Batch: MERP/3907
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107495001

METHOD BLANK: 695577
Matrix: Water
Associated Lab Samples: 92107495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/08/11 11:50	

LABORATORY CONTROL SAMPLE: 695578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695579 695580

Parameter	Units	92107636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.6	1.6	63	63	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695581 695582

Parameter	Units	92107636002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.9	1.9	73	73	75-125	1	M1

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107495001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

QC Batch: MSV/17569
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107495001

METHOD BLANK: 697196
Matrix: Water
Associated Lab Samples: 92107495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/08/11 16:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
2-Butanone (MEK)	ug/L	ND	5.0	12/08/11 16:34	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
2-Hexanone	ug/L	ND	5.0	12/08/11 16:34	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/08/11 16:34	
Acetone	ug/L	ND	25.0	12/08/11 16:34	
Benzene	ug/L	ND	1.0	12/08/11 16:34	
Bromobenzene	ug/L	ND	1.0	12/08/11 16:34	
Bromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromoform	ug/L	ND	1.0	12/08/11 16:34	
Bromomethane	ug/L	ND	2.0	12/08/11 16:34	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 16:34	
Chlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
Chloroethane	ug/L	ND	1.0	12/08/11 16:34	
Chloroform	ug/L	ND	1.0	12/08/11 16:34	
Chloromethane	ug/L	ND	1.0	12/08/11 16:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Dibromomethane	ug/L	ND	1.0	12/08/11 16:34	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Diisopropyl ether	ug/L	ND	1.0	12/08/11 16:34	
Ethylbenzene	ug/L	ND	1.0	12/08/11 16:34	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

METHOD BLANK: 697196 Matrix: Water

Associated Lab Samples: 92107495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 16:34	
m&p-Xylene	ug/L	ND	2.0	12/08/11 16:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 16:34	
Methylene Chloride	ug/L	ND	2.0	12/08/11 16:34	
Naphthalene	ug/L	ND	1.0	12/08/11 16:34	
o-Xylene	ug/L	ND	1.0	12/08/11 16:34	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 16:34	
Styrene	ug/L	ND	1.0	12/08/11 16:34	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 16:34	
Toluene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Trichloroethene	ug/L	ND	1.0	12/08/11 16:34	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Vinyl acetate	ug/L	ND	2.0	12/08/11 16:34	
Vinyl chloride	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/08/11 16:34	
4-Bromofluorobenzene (S)	%	94	70-130	12/08/11 16:34	
Dibromofluoromethane (S)	%	106	70-130	12/08/11 16:34	
Toluene-d8 (S)	%	94	70-130	12/08/11 16:34	

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	70-130	
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	45.2	90	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	46.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	70-135	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
2,2-Dichloropropane	ug/L	50	47.8	96	58-145	
2-Butanone (MEK)	ug/L	100	129	129	70-145	
2-Chlorotoluene	ug/L	50	51.7	103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	134	134	70-144	F3
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-140	
Acetone	ug/L	100	179	179	50-175	F3,L0
Benzene	ug/L	50	48.3	97	70-130	
Bromobenzene	ug/L	50	49.9	100	70-130	
Bromochloromethane	ug/L	50	48.7	97	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	48.8	98	70-130	
Bromomethane	ug/L	50	36.3	73	54-130	
Carbon tetrachloride	ug/L	50	60.6	121	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	42.9	86	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	34.9	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dibromomethane	ug/L	50	51.8	104	70-131	
Dichlorodifluoromethane	ug/L	50	28.9	58	56-130	F3
Diisopropyl ether	ug/L	50	44.3	89	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	45.5	91	63-130	
Naphthalene	ug/L	50	47.9	96	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	54.6	109	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	50.7	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	42.2	84	62-133	
Vinyl acetate	ug/L	100	78.2	78	66-157	
Vinyl chloride	ug/L	50	45.5	91	69-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 697198 697199

Parameter	Units	92107495001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.5	53.3	105	106	70-166	2	
Benzene	ug/L	1.2	50	50	56.0	55.6	110	109	70-148	1	
Chlorobenzene	ug/L	1.1	50	50	56.4	56.0	111	110	70-146	1	
Toluene	ug/L	ND	50	50	52.8	52.1	106	104	70-155	1	
Trichloroethene	ug/L	ND	50	50	59.3	58.8	118	117	69-151	1	
1,2-Dichloroethane-d4 (S)	%						97	99	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Dibromofluoromethane (S)	%						105	108	70-130		
Toluene-d8 (S)	%						94	94	70-130		

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Pace Analytical Services, Inc.
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(336)623-8921

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Asheville, NC 28804
(828)254-7176

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

QUALIFIERS

Project: Clay Co. Landfill MW 4 11/30
Pace Project No.: 92107495

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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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: of

1490076

Section A Required Client Information:

Company: Environmental Inc
Address: PO Box 954
Callowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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): VOC; Metals

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOC	Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92107495)
1	Well # 4 Clay County	WT	G			11-30-11	1417	4	4			X							X			92107495001
2								148					X							X		"
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brenda Bradley	11-30-11	1720	[signature]	11/30/11	1720				
	[signature]	12/1/11	1031	[signature]	12/1/11	10:38	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107495

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/8/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

COURIER: [signature] 12/8/11 SRF Review: [signature] Date: 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107496001	**WELL # 5 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

Sample: WELL # 5 CLAY COUNTY **Lab ID: 92107496001** Collected: 11/30/11 14:47 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-38-2	
Barium	**217**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:52	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-47-3	
Cobalt	**12.2**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-48-4	
Copper	**12.6**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:52	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:52	7440-28-0	
Vanadium	**5.7**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:52	7440-62-2	
Zinc	**22.9**	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**4.1**	ug/L	0.20	1	12/07/11 16:45	12/08/11 12:27	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/11 17:50	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/11 17:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/11 17:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/11 17:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/11 17:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/11 17:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/11 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/11 17:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/11 17:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/11 17:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/11 17:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/11 17:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/11 17:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/08/11 17:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/11 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/11 17:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/11 17:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:50	541-73-1	
1,4-Dichlorobenzene	**1.7**	ug/L	1.0	1		12/08/11 17:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/11 17:50	75-71-8	
1,1-Dichloroethane	**1.7**	ug/L	1.0	1		12/08/11 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/11 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:50	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

Sample: WELL # 5 CLAY COUNTY **Lab ID: 92107496001** Collected: 11/30/11 14:47 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	**2.5**	ug/L	1.0	1		12/08/11 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/11 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 17:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 17:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/11 17:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/11 17:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/11 17:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/11 17:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/11 17:50	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/08/11 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/11 17:50	108-10-1	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	1		12/08/11 17:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/11 17:50	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/11 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/11 17:50	127-18-4	
Toluene	ND	ug/L	1.0	1		12/08/11 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/11 17:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/11 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/11 17:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/11 17:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/11 17:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/11 17:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/08/11 17:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/11 17:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/08/11 17:50	460-00-4	
Dibromofluoromethane (S)	110	%	70-130	1		12/08/11 17:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/08/11 17:50	17060-07-0	
Toluene-d8 (S)	88	%	70-130	1		12/08/11 17:50	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

QC Batch: MERP/3907
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107496001

METHOD BLANK: 695577
Matrix: Water
Associated Lab Samples: 92107496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/08/11 11:50	

LABORATORY CONTROL SAMPLE: 695578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695579 695580

Parameter	Units	92107636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.6	1.6	63	63	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695581 695582

Parameter	Units	92107636002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.9	1.9	73	73	75-125	1	M1

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107496001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

QC Batch: MSV/17569
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107496001

METHOD BLANK: 697196
Matrix: Water
Associated Lab Samples: 92107496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/08/11 16:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
2-Butanone (MEK)	ug/L	ND	5.0	12/08/11 16:34	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
2-Hexanone	ug/L	ND	5.0	12/08/11 16:34	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/08/11 16:34	
Acetone	ug/L	ND	25.0	12/08/11 16:34	
Benzene	ug/L	ND	1.0	12/08/11 16:34	
Bromobenzene	ug/L	ND	1.0	12/08/11 16:34	
Bromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromoform	ug/L	ND	1.0	12/08/11 16:34	
Bromomethane	ug/L	ND	2.0	12/08/11 16:34	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 16:34	
Chlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
Chloroethane	ug/L	ND	1.0	12/08/11 16:34	
Chloroform	ug/L	ND	1.0	12/08/11 16:34	
Chloromethane	ug/L	ND	1.0	12/08/11 16:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Dibromomethane	ug/L	ND	1.0	12/08/11 16:34	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Diisopropyl ether	ug/L	ND	1.0	12/08/11 16:34	
Ethylbenzene	ug/L	ND	1.0	12/08/11 16:34	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

METHOD BLANK: 697196 Matrix: Water

Associated Lab Samples: 92107496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 16:34	
m&p-Xylene	ug/L	ND	2.0	12/08/11 16:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 16:34	
Methylene Chloride	ug/L	ND	2.0	12/08/11 16:34	
Naphthalene	ug/L	ND	1.0	12/08/11 16:34	
o-Xylene	ug/L	ND	1.0	12/08/11 16:34	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 16:34	
Styrene	ug/L	ND	1.0	12/08/11 16:34	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 16:34	
Toluene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Trichloroethene	ug/L	ND	1.0	12/08/11 16:34	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Vinyl acetate	ug/L	ND	2.0	12/08/11 16:34	
Vinyl chloride	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/08/11 16:34	
4-Bromofluorobenzene (S)	%	94	70-130	12/08/11 16:34	
Dibromofluoromethane (S)	%	106	70-130	12/08/11 16:34	
Toluene-d8 (S)	%	94	70-130	12/08/11 16:34	

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	70-130	
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	45.2	90	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	46.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	70-135	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
2,2-Dichloropropane	ug/L	50	47.8	96	58-145	
2-Butanone (MEK)	ug/L	100	129	129	70-145	
2-Chlorotoluene	ug/L	50	51.7	103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	134	134	70-144	F3
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-140	
Acetone	ug/L	100	179	179	50-175	F3,L0
Benzene	ug/L	50	48.3	97	70-130	
Bromobenzene	ug/L	50	49.9	100	70-130	
Bromochloromethane	ug/L	50	48.7	97	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	48.8	98	70-130	
Bromomethane	ug/L	50	36.3	73	54-130	
Carbon tetrachloride	ug/L	50	60.6	121	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	42.9	86	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	34.9	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dibromomethane	ug/L	50	51.8	104	70-131	
Dichlorodifluoromethane	ug/L	50	28.9	58	56-130	F3
Diisopropyl ether	ug/L	50	44.3	89	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	45.5	91	63-130	
Naphthalene	ug/L	50	47.9	96	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	54.6	109	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	50.7	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	42.2	84	62-133	
Vinyl acetate	ug/L	100	78.2	78	66-157	
Vinyl chloride	ug/L	50	45.5	91	69-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 697198 697199

Parameter	Units	92107495001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.5	53.3	105	106	70-166	2	
Benzene	ug/L	1.2	50	50	56.0	55.6	110	109	70-148	1	
Chlorobenzene	ug/L	1.1	50	50	56.4	56.0	111	110	70-146	1	
Toluene	ug/L	ND	50	50	52.8	52.1	106	104	70-155	1	
Trichloroethene	ug/L	ND	50	50	59.3	58.8	118	117	69-151	1	
1,2-Dichloroethane-d4 (S)	%						97	99	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Dibromofluoromethane (S)	%						105	108	70-130		
Toluene-d8 (S)	%						94	94	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 5 11/30
Pace Project No.: 92107496

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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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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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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: of

1490077

Section A
Required Client Information:

Company: Enviornmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location
STATE: _____

Section D
Required Client Information

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

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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals Appx 1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107496
1	Well #5 Clay County	WT	G			11-30-11	1447		4			X						X			92107496001
2													X						X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Bryson	11-30-11	1720	Mathy Tuse	11/30/11	1720				
	Mathy Tuse	12/1/11	1038		12/1/11	10:38	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107496 001

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: [illegible]

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

[illegible] 12/8/11 [illegible] 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107497001	**WELL # 6 CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

Sample: WELL # 6 CLAY COUNTY **Lab ID: 92107497001** Collected: 11/30/11 13:47 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-38-2	
Barium	**110**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:39	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:58	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-48-4	
Copper	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:58	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:58	7440-28-0	
Vanadium	**6.0**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:58	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:58	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/07/11 16:45	12/08/11 12:29	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/11 18:16	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/11 18:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/11 18:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/11 18:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/11 18:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/11 18:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/11 18:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/11 18:16	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/11 18:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/11 18:16	108-90-7	
Chloroethane	**1.1**	ug/L	1.0	1		12/08/11 18:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/11 18:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/11 18:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 18:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/11 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/08/11 18:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/11 18:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/11 18:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/11 18:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 18:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/11 18:16	541-73-1	
1,4-Dichlorobenzene	**1.1**	ug/L	1.0	1		12/08/11 18:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/11 18:16	75-71-8	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		12/08/11 18:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/11 18:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/11 18:16	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

Sample: WELL # 6 CLAY COUNTY **Lab ID: 92107497001** Collected: 11/30/11 13:47 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	**5.0**	ug/L	1.0	1		12/08/11 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/11 18:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 18:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/11 18:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/11 18:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/11 18:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/11 18:16	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/11 18:16	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/11 18:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/11 18:16	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/11 18:16	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/11 18:16	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/08/11 18:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/11 18:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/08/11 18:16	1634-04-4	
Naphthalene	**19.4**	ug/L	1.0	1		12/08/11 18:16	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/11 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/11 18:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/11 18:16	127-18-4	
Toluene	ND	ug/L	1.0	1		12/08/11 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/11 18:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/11 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/11 18:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/11 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/11 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/11 18:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/11 18:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/11 18:16	75-01-4	
m&p-Xylene	**2.8**	ug/L	2.0	1		12/08/11 18:16	179601-23-1	
o-Xylene	**3.5**	ug/L	1.0	1		12/08/11 18:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/08/11 18:16	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		12/08/11 18:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/11 18:16	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		12/08/11 18:16	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

QC Batch: MERP/3907
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107497001

METHOD BLANK: 695577
Matrix: Water
Associated Lab Samples: 92107497001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/08/11 11:50	

LABORATORY CONTROL SAMPLE: 695578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695579 695580

Parameter	Units	92107636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.6	1.6	63	63	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695581 695582

Parameter	Units	92107636002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.9	1.9	73	73	75-125	1	M1

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107497001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107497001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

QC Batch: MSV/17569
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107497001

METHOD BLANK: 697196
Matrix: Water
Associated Lab Samples: 92107497001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/08/11 16:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 16:34	
2-Butanone (MEK)	ug/L	ND	5.0	12/08/11 16:34	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
2-Hexanone	ug/L	ND	5.0	12/08/11 16:34	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 16:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/08/11 16:34	
Acetone	ug/L	ND	25.0	12/08/11 16:34	
Benzene	ug/L	ND	1.0	12/08/11 16:34	
Bromobenzene	ug/L	ND	1.0	12/08/11 16:34	
Bromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 16:34	
Bromoform	ug/L	ND	1.0	12/08/11 16:34	
Bromomethane	ug/L	ND	2.0	12/08/11 16:34	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 16:34	
Chlorobenzene	ug/L	ND	1.0	12/08/11 16:34	
Chloroethane	ug/L	ND	1.0	12/08/11 16:34	
Chloroform	ug/L	ND	1.0	12/08/11 16:34	
Chloromethane	ug/L	ND	1.0	12/08/11 16:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 16:34	
Dibromomethane	ug/L	ND	1.0	12/08/11 16:34	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Diisopropyl ether	ug/L	ND	1.0	12/08/11 16:34	
Ethylbenzene	ug/L	ND	1.0	12/08/11 16:34	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

METHOD BLANK: 697196 Matrix: Water

Associated Lab Samples: 92107497001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 16:34	
m&p-Xylene	ug/L	ND	2.0	12/08/11 16:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 16:34	
Methylene Chloride	ug/L	ND	2.0	12/08/11 16:34	
Naphthalene	ug/L	ND	1.0	12/08/11 16:34	
o-Xylene	ug/L	ND	1.0	12/08/11 16:34	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 16:34	
Styrene	ug/L	ND	1.0	12/08/11 16:34	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 16:34	
Toluene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 16:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 16:34	
Trichloroethene	ug/L	ND	1.0	12/08/11 16:34	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 16:34	
Vinyl acetate	ug/L	ND	2.0	12/08/11 16:34	
Vinyl chloride	ug/L	ND	1.0	12/08/11 16:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/08/11 16:34	
4-Bromofluorobenzene (S)	%	94	70-130	12/08/11 16:34	
Dibromofluoromethane (S)	%	106	70-130	12/08/11 16:34	
Toluene-d8 (S)	%	94	70-130	12/08/11 16:34	

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	70-130	
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	45.2	90	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	46.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	70-135	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
2,2-Dichloropropane	ug/L	50	47.8	96	58-145	
2-Butanone (MEK)	ug/L	100	129	129	70-145	
2-Chlorotoluene	ug/L	50	51.7	103	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

LABORATORY CONTROL SAMPLE: 697197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	134	134	70-144	F3
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-140	
Acetone	ug/L	100	179	179	50-175	F3,L0
Benzene	ug/L	50	48.3	97	70-130	
Bromobenzene	ug/L	50	49.9	100	70-130	
Bromochloromethane	ug/L	50	48.7	97	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	48.8	98	70-130	
Bromomethane	ug/L	50	36.3	73	54-130	
Carbon tetrachloride	ug/L	50	60.6	121	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	42.9	86	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	34.9	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dibromomethane	ug/L	50	51.8	104	70-131	
Dichlorodifluoromethane	ug/L	50	28.9	58	56-130	F3
Diisopropyl ether	ug/L	50	44.3	89	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	45.5	91	63-130	
Naphthalene	ug/L	50	47.9	96	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	54.6	109	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	50.7	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	42.2	84	62-133	
Vinyl acetate	ug/L	100	78.2	78	66-157	
Vinyl chloride	ug/L	50	45.5	91	69-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 697198 697199

Parameter	Units	92107495001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.5	53.3	105	106	70-166	2	
Benzene	ug/L	1.2	50	50	56.0	55.6	110	109	70-148	1	
Chlorobenzene	ug/L	1.1	50	50	56.4	56.0	111	110	70-146	1	
Toluene	ug/L	ND	50	50	52.8	52.1	106	104	70-155	1	
Trichloroethene	ug/L	ND	50	50	59.3	58.8	118	117	69-151	1	
1,2-Dichloroethane-d4 (S)	%						97	99	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Dibromofluoromethane (S)	%						105	108	70-130		
Toluene-d8 (S)	%						94	94	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 6 11/30
Pace Project No.: 92107497

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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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: of

1490078

Section A Required Client Information:

Company: Environmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals Apx I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Well #6 Clay County	WT	G			11-30-11	1347	6.7	4			X						X			92107497
2													X						X		92107497001
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Barbour	11-30-11	1720	[illegible]	11/30/11	1720				
	[illegible]	12/1/11	1038	[illegible]	12/1/11	10:38	42	Y	[illegible]	Y
	[illegible]									

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107497

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/8/14

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCUR Rev. [illegible] 12/8/14 SCUR Rev. [illegible] 12/8/14

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107490001	**DOWN STREAM CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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

ANALYTICAL RESULTS

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

Sample: DOWN STREAM CLAY COUNTY **Lab ID: 92107490001** Collected: 11/30/11 15:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-38-2	
Barium	**7.9**	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 23:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-48-4	
Copper	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:09	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 23:09	7440-28-0	
Vanadium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 23:09	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 23:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/05/11 14:25	12/06/11 15:27	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 01:55	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 01:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 01:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 01:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 01:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 01:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 01:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 01:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 01:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 01:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 01:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 01:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 01:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 01:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 01:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 01:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 01:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 01:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 01:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 01:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:55	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

Sample: DOWN STREAM CLAY COUNTY **Lab ID: 92107490001** Collected: 11/30/11 15:17 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 01:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 01:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 01:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 01:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 01:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 01:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 01:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 01:55	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 01:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 01:55	127-18-4	
Toluene	ND	ug/L	1.0	1		12/07/11 01:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 01:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 01:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 01:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 01:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 01:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 01:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 01:55	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 01:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 01:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/07/11 01:55	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		12/07/11 01:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/07/11 01:55	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		12/07/11 01:55	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

QC Batch: MERP/3902
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107490001

METHOD BLANK: 694378
Matrix: Water
Associated Lab Samples: 92107490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/11 14:16	

LABORATORY CONTROL SAMPLE: 694379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694380 694381

Parameter	Units	92107473004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694382 694383

Parameter	Units	92107486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	104	75-125	2	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107490001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

QC Batch: MSV/17550
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107490001

METHOD BLANK: 695800
Matrix: Water
Associated Lab Samples: 92107490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/07/11 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	12/07/11 00:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
2-Hexanone	ug/L	ND	5.0	12/07/11 00:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/07/11 00:13	
Acetone	ug/L	ND	25.0	12/07/11 00:13	
Benzene	ug/L	ND	1.0	12/07/11 00:13	
Bromobenzene	ug/L	ND	1.0	12/07/11 00:13	
Bromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromoform	ug/L	ND	1.0	12/07/11 00:13	
Bromomethane	ug/L	ND	2.0	12/07/11 00:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/11 00:13	
Chlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
Chloroethane	ug/L	ND	1.0	12/07/11 00:13	
Chloroform	ug/L	ND	1.0	12/07/11 00:13	
Chloromethane	ug/L	ND	1.0	12/07/11 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Dibromomethane	ug/L	ND	1.0	12/07/11 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Diisopropyl ether	ug/L	ND	1.0	12/07/11 00:13	
Ethylbenzene	ug/L	ND	1.0	12/07/11 00:13	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

METHOD BLANK: 695800 Matrix: Water

Associated Lab Samples: 92107490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/11 00:13	
m&p-Xylene	ug/L	ND	2.0	12/07/11 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/11 00:13	
Methylene Chloride	ug/L	ND	2.0	12/07/11 00:13	
Naphthalene	ug/L	ND	1.0	12/07/11 00:13	
o-Xylene	ug/L	ND	1.0	12/07/11 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/11 00:13	
Styrene	ug/L	ND	1.0	12/07/11 00:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/11 00:13	
Toluene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Trichloroethene	ug/L	ND	1.0	12/07/11 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Vinyl acetate	ug/L	ND	2.0	12/07/11 00:13	
Vinyl chloride	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane-d4 (S)	%	95	70-130	12/07/11 00:13	
4-Bromofluorobenzene (S)	%	96	70-130	12/07/11 00:13	
Dibromofluoromethane (S)	%	108	70-130	12/07/11 00:13	
Toluene-d8 (S)	%	90	70-130	12/07/11 00:13	

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.0	114	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-132	
1,1-Dichloropropene	ug/L	50	44.0	88	70-130	
1,2,3-Trichlorobenzene	ug/L	50	68.3	137	70-135	L0
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	67.6	135	70-134	L0
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
1,2-Dichloropropane	ug/L	50	44.8	90	70-130	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	54.6	109	70-130	
2,2-Dichloropropane	ug/L	50	42.8	86	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	F3
2-Chlorotoluene	ug/L	50	48.7	97	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.2	97	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	70-140	
Acetone	ug/L	100	92.7	93	50-175	
Benzene	ug/L	50	45.1	90	70-130	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	55.8	112	54-130	
Carbon tetrachloride	ug/L	50	58.9	118	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	35.1	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	58.4	117	70-130	
Dibromomethane	ug/L	50	54.5	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.4	79	56-130	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.8	92	70-130	
Methylene Chloride	ug/L	50	46.4	93	63-130	
Naphthalene	ug/L	50	65.8	132	70-138	
o-Xylene	ug/L	50	53.5	107	70-130	
p-Isopropyltoluene	ug/L	50	67.1	134	70-130	L0
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	44.3	89	62-133	
Vinyl acetate	ug/L	100	73.0	73	66-157	
Vinyl chloride	ug/L	50	43.1	86	69-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698369 698370

Parameter	Units	92107493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.6	55.1	113	110	70-166	3	
Benzene	ug/L	ND	50	50	57.5	55.7	115	111	70-148	3	
Chlorobenzene	ug/L	ND	50	50	53.3	51.2	107	102	70-146	4	
Toluene	ug/L	ND	50	50	52.7	51.2	105	102	70-155	3	
Trichloroethene	ug/L	ND	50	50	54.9	53.2	110	106	69-151	3	
1,2-Dichloroethane-d4 (S)	%						114	115	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Dibromofluoromethane (S)	%						116	117	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MWs DN 11/30
Pace Project No.: 92107490

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1490080

Section A Required Client Information:

Company: Environmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC	Metals										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107490
1	Downstream Clay County	WT	C			11-30-11	15:17	26	4			X							X												92107490001
2													X							X												"
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Brabson	11-30-11	1720		11/30/11	1720				
		12/1/11	1038		12/1/11	10:38	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107490

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 12/1/11

Temp should be above freezing to 6°C **Comments:**

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 12/8/11 **SRF Review:** [signature] Date: 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107487001	**UP STREAM CLAY COUNTY**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

Sample: UP STREAM CLAY COUNTY **Lab ID: 92107487001** Collected: 11/30/11 15:32 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-38-2	
Barium	**7.4**	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 13:54	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/07/11 22:59	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-48-4	
Copper	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 22:59	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/07/11 22:59	7440-28-0	
Vanadium	ND	ug/L	5.0	1	12/06/11 09:45	12/07/11 22:59	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/07/11 22:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/05/11 14:25	12/06/11 15:25	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 01:29	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 01:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 01:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 01:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 01:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 01:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 01:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 01:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 01:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 01:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 01:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 01:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 01:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 01:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 01:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 01:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 01:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 01:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 01:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 01:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 01:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:29	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

Sample: UP STREAM CLAY COUNTY **Lab ID: 92107487001** Collected: 11/30/11 15:32 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 01:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 01:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 01:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 01:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 01:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 01:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 01:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 01:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 01:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 01:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 01:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 01:29	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 01:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 01:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 01:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 01:29	127-18-4	
Toluene	ND	ug/L	1.0	1		12/07/11 01:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 01:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 01:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 01:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 01:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 01:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 01:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 01:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 01:29	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 01:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 01:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/07/11 01:29	460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1		12/07/11 01:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/07/11 01:29	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		12/07/11 01:29	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

QC Batch: MERP/3902
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107487001

METHOD BLANK: 694378
Matrix: Water
Associated Lab Samples: 92107487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/11 14:16	

LABORATORY CONTROL SAMPLE: 694379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694380 694381

Parameter	Units	92107473004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694382 694383

Parameter	Units	92107486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	104	75-125	2	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107487001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

QC Batch: MSV/17550
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107487001

METHOD BLANK: 695800
Matrix: Water
Associated Lab Samples: 92107487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/07/11 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	12/07/11 00:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
2-Hexanone	ug/L	ND	5.0	12/07/11 00:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/07/11 00:13	
Acetone	ug/L	ND	25.0	12/07/11 00:13	
Benzene	ug/L	ND	1.0	12/07/11 00:13	
Bromobenzene	ug/L	ND	1.0	12/07/11 00:13	
Bromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromoform	ug/L	ND	1.0	12/07/11 00:13	
Bromomethane	ug/L	ND	2.0	12/07/11 00:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/11 00:13	
Chlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
Chloroethane	ug/L	ND	1.0	12/07/11 00:13	
Chloroform	ug/L	ND	1.0	12/07/11 00:13	
Chloromethane	ug/L	ND	1.0	12/07/11 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Dibromomethane	ug/L	ND	1.0	12/07/11 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Diisopropyl ether	ug/L	ND	1.0	12/07/11 00:13	
Ethylbenzene	ug/L	ND	1.0	12/07/11 00:13	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

METHOD BLANK: 695800 Matrix: Water

Associated Lab Samples: 92107487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/11 00:13	
m&p-Xylene	ug/L	ND	2.0	12/07/11 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/11 00:13	
Methylene Chloride	ug/L	ND	2.0	12/07/11 00:13	
Naphthalene	ug/L	ND	1.0	12/07/11 00:13	
o-Xylene	ug/L	ND	1.0	12/07/11 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/11 00:13	
Styrene	ug/L	ND	1.0	12/07/11 00:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/11 00:13	
Toluene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Trichloroethene	ug/L	ND	1.0	12/07/11 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Vinyl acetate	ug/L	ND	2.0	12/07/11 00:13	
Vinyl chloride	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane-d4 (S)	%	95	70-130	12/07/11 00:13	
4-Bromofluorobenzene (S)	%	96	70-130	12/07/11 00:13	
Dibromofluoromethane (S)	%	108	70-130	12/07/11 00:13	
Toluene-d8 (S)	%	90	70-130	12/07/11 00:13	

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.0	114	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-132	
1,1-Dichloropropene	ug/L	50	44.0	88	70-130	
1,2,3-Trichlorobenzene	ug/L	50	68.3	137	70-135	L0
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	67.6	135	70-134	L0
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
1,2-Dichloropropane	ug/L	50	44.8	90	70-130	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	54.6	109	70-130	
2,2-Dichloropropane	ug/L	50	42.8	86	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	F3
2-Chlorotoluene	ug/L	50	48.7	97	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.2	97	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	70-140	
Acetone	ug/L	100	92.7	93	50-175	
Benzene	ug/L	50	45.1	90	70-130	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	55.8	112	54-130	
Carbon tetrachloride	ug/L	50	58.9	118	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	35.1	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	58.4	117	70-130	
Dibromomethane	ug/L	50	54.5	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.4	79	56-130	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.8	92	70-130	
Methylene Chloride	ug/L	50	46.4	93	63-130	
Naphthalene	ug/L	50	65.8	132	70-138	
o-Xylene	ug/L	50	53.5	107	70-130	
p-Isopropyltoluene	ug/L	50	67.1	134	70-130	L0
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	44.3	89	62-133	
Vinyl acetate	ug/L	100	73.0	73	66-157	
Vinyl chloride	ug/L	50	43.1	86	69-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698369 698370

Parameter	Units	92107493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.6	55.1	113	110	70-166	3	
Benzene	ug/L	ND	50	50	57.5	55.7	115	111	70-148	3	
Chlorobenzene	ug/L	ND	50	50	53.3	51.2	107	102	70-146	4	
Toluene	ug/L	ND	50	50	52.7	51.2	105	102	70-155	3	
Trichloroethene	ug/L	ND	50	50	54.9	53.2	110	106	69-151	3	
1,2-Dichloroethane-d4 (S)	%						114	115	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Dibromofluoromethane (S)	%						116	117	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MWs UP 11/30
Pace Project No.: 92107487

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1490079

Section A Required Client Information:

Company: Enviornmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals Ag x 1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107487
1	Up Stream Clay County	WT	G			11-30-11	1532	30	4			X						X			92107487001
2													X						X		11
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon Bralagy	11-30-11	1720	[illegible]	11/30/11	1720				
	Lindsey Tum	12/1/11	1038	[illegible]	12/1/11	10:38	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

Pace Analytical www.pacelabs.com	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: Env Inc Project # 92107487

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: [illegible] 12/1/1

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	[illegible]
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: [illegible] Date: 12/8/11 **SRF Review:** [illegible] Date: 12/8/11

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December 14, 2011

Mr. Mark Teague
Environmental, Inc.
PO Box 954
Cullowhee, NC 28723

RE: Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. 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,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

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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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92107498001	**EQUIPMENT BLANK**	EPA 6010	JMW	15	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	63	PASI-C
92107498002	**TRIP BLANK**	EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Sample: EQUIPMENT BLANK **Lab ID: 92107498001** Collected: 11/30/11 14:52 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-38-2	
Barium	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 14:42	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/06/11 09:45	12/08/11 00:04	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-48-4	
Copper	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-50-8	
Lead	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/06/11 09:45	12/08/11 00:04	7782-49-2	
Silver	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-22-4	
Thallium	ND	ug/L	5.4	1	12/06/11 09:45	12/08/11 00:04	7440-28-0	
Vanadium	ND	ug/L	5.0	1	12/06/11 09:45	12/08/11 00:04	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/06/11 09:45	12/08/11 00:04	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/07/11 16:45	12/08/11 12:32	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 04:52	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 04:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 04:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 04:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 04:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 04:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 04:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 04:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 04:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 04:52	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 04:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 04:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 04:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 04:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 04:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 04:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 04:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 04:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 04:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 04:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 04:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 04:52	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Sample: EQUIPMENT BLANK **Lab ID: 92107498001** Collected: 11/30/11 14:52 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 04:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 04:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 04:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 04:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 04:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 04:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 04:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 04:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 04:52	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 04:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 04:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 04:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 04:52	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 04:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 04:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 04:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 04:52	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 04:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 04:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 04:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 04:52	127-18-4	
Toluene	ND	ug/L	1.0	1		12/07/11 04:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 04:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 04:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 04:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 04:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 04:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 04:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 04:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 04:52	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 04:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 04:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/07/11 04:52	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		12/07/11 04:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/07/11 04:52	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		12/07/11 04:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Sample: TRIP BLANK **Lab ID: 92107498002** Collected: 11/30/11 00:00 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/07/11 05:18	67-64-1	
Benzene	ND	ug/L	1.0	1		12/07/11 05:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/07/11 05:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/07/11 05:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/07/11 05:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/11 05:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/07/11 05:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/07/11 05:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/11 05:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/11 05:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/07/11 05:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/11 05:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 05:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/11 05:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/07/11 05:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/07/11 05:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/11 05:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/07/11 05:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/11 05:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/11 05:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/11 05:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/11 05:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 05:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/11 05:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 05:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/11 05:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/11 05:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/11 05:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 05:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/11 05:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/07/11 05:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/07/11 05:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/11 05:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/07/11 05:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/11 05:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/07/11 05:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/07/11 05:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/11 05:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/07/11 05:18	91-20-3	
Styrene	ND	ug/L	1.0	1		12/07/11 05:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 05:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/11 05:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/11 05:18	127-18-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

Sample: TRIP BLANK **Lab ID: 92107498002** Collected: 11/30/11 00:00 Received: 12/01/11 10:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/07/11 05:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/11 05:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/11 05:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/11 05:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/11 05:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/11 05:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/07/11 05:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/07/11 05:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/07/11 05:18	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		12/07/11 05:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/07/11 05:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/07/11 05:18	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		12/07/11 05:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/07/11 05:18	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		12/07/11 05:18	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

QC Batch: MERP/3907
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92107498001

METHOD BLANK: 695577
Matrix: Water
Associated Lab Samples: 92107498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/08/11 11:50	

LABORATORY CONTROL SAMPLE: 695578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695579 695580

Parameter	Units	92107636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.6	1.6	63	63	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695581 695582

Parameter	Units	92107636002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.9	1.9	73	73	75-125	1	M1

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

QC Batch: MPRP/9521
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92107498001

METHOD BLANK: 695476
Matrix: Water
Associated Lab Samples: 92107498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/07/11 22:48	
Arsenic	ug/L	ND	5.0	12/07/11 22:48	
Barium	ug/L	ND	5.0	12/07/11 22:48	
Beryllium	ug/L	ND	1.0	12/07/11 22:48	
Cadmium	ug/L	ND	1.0	12/07/11 22:48	
Chromium	ug/L	ND	5.0	12/07/11 22:48	
Cobalt	ug/L	ND	5.0	12/07/11 22:48	
Copper	ug/L	ND	5.0	12/07/11 22:48	
Lead	ug/L	ND	5.0	12/07/11 22:48	
Nickel	ug/L	ND	5.0	12/07/11 22:48	
Selenium	ug/L	ND	10.0	12/07/11 22:48	
Silver	ug/L	ND	5.0	12/07/11 22:48	
Thallium	ug/L	ND	5.4	12/07/11 22:48	
Vanadium	ug/L	ND	5.0	12/07/11 22:48	
Zinc	ug/L	ND	10.0	12/07/11 22:48	

LABORATORY CONTROL SAMPLE: 695477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	440	88	80-120	
Arsenic	ug/L	500	465	93	80-120	
Barium	ug/L	500	447	89	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	458	92	80-120	
Cobalt	ug/L	500	441	88	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	442	88	80-120	
Selenium	ug/L	500	457	91	80-120	
Silver	ug/L	250	229	92	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	443	89	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

MATRIX SPIKE SAMPLE: 695478

Parameter	Units	92107487001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	7.4	500	457	90	75-125	
Beryllium	ug/L	ND	500	489	98	75-125	
Cadmium	ug/L	ND	500	448	90	75-125	
Chromium	ug/L	ND	500	460	92	75-125	
Cobalt	ug/L	ND	500	442	88	75-125	
Copper	ug/L	ND	500	462	92	75-125	
Lead	ug/L	ND	500	473	94	75-125	
Nickel	ug/L	ND	500	442	88	75-125	
Selenium	ug/L	ND	500	455	91	75-125	
Silver	ug/L	ND	250	232	92	75-125	
Thallium	ug/L	ND	500	435	87	75-125	
Vanadium	ug/L	ND	500	444	89	75-125	
Zinc	ug/L	ND	500	466	93	75-125	

SAMPLE DUPLICATE: 695479

Parameter	Units	92107490001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	7.9	7.4	6	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	ND		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

QC Batch: MSV/17550
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92107498001, 92107498002

METHOD BLANK: 695800
Matrix: Water
Associated Lab Samples: 92107498001, 92107498002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/07/11 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/11 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	12/07/11 00:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
2-Hexanone	ug/L	ND	5.0	12/07/11 00:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/11 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/07/11 00:13	
Acetone	ug/L	ND	25.0	12/07/11 00:13	
Benzene	ug/L	ND	1.0	12/07/11 00:13	
Bromobenzene	ug/L	ND	1.0	12/07/11 00:13	
Bromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/11 00:13	
Bromoform	ug/L	ND	1.0	12/07/11 00:13	
Bromomethane	ug/L	ND	2.0	12/07/11 00:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/11 00:13	
Chlorobenzene	ug/L	ND	1.0	12/07/11 00:13	
Chloroethane	ug/L	ND	1.0	12/07/11 00:13	
Chloroform	ug/L	ND	1.0	12/07/11 00:13	
Chloromethane	ug/L	ND	1.0	12/07/11 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/11 00:13	
Dibromomethane	ug/L	ND	1.0	12/07/11 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Diisopropyl ether	ug/L	ND	1.0	12/07/11 00:13	
Ethylbenzene	ug/L	ND	1.0	12/07/11 00:13	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

METHOD BLANK: 695800 Matrix: Water

Associated Lab Samples: 92107498001, 92107498002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/11 00:13	
m&p-Xylene	ug/L	ND	2.0	12/07/11 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/11 00:13	
Methylene Chloride	ug/L	ND	2.0	12/07/11 00:13	
Naphthalene	ug/L	ND	1.0	12/07/11 00:13	
o-Xylene	ug/L	ND	1.0	12/07/11 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/11 00:13	
Styrene	ug/L	ND	1.0	12/07/11 00:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/11 00:13	
Toluene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/11 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/11 00:13	
Trichloroethene	ug/L	ND	1.0	12/07/11 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/11 00:13	
Vinyl acetate	ug/L	ND	2.0	12/07/11 00:13	
Vinyl chloride	ug/L	ND	1.0	12/07/11 00:13	
1,2-Dichloroethane-d4 (S)	%	95	70-130	12/07/11 00:13	
4-Bromofluorobenzene (S)	%	96	70-130	12/07/11 00:13	
Dibromofluoromethane (S)	%	108	70-130	12/07/11 00:13	
Toluene-d8 (S)	%	90	70-130	12/07/11 00:13	

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.0	114	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-132	
1,1-Dichloropropene	ug/L	50	44.0	88	70-130	
1,2,3-Trichlorobenzene	ug/L	50	68.3	137	70-135	L0
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	67.6	135	70-134	L0
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
1,2-Dichloropropane	ug/L	50	44.8	90	70-130	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	54.6	109	70-130	
2,2-Dichloropropane	ug/L	50	42.8	86	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	F3
2-Chlorotoluene	ug/L	50	48.7	97	70-130	

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Eden, NC 27288
(336)623-8921

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

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

LABORATORY CONTROL SAMPLE: 695801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.2	97	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	70-140	
Acetone	ug/L	100	92.7	93	50-175	
Benzene	ug/L	50	45.1	90	70-130	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	55.8	112	54-130	
Carbon tetrachloride	ug/L	50	58.9	118	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	35.1	70	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	58.4	117	70-130	
Dibromomethane	ug/L	50	54.5	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.4	79	56-130	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.8	92	70-130	
Methylene Chloride	ug/L	50	46.4	93	63-130	
Naphthalene	ug/L	50	65.8	132	70-138	
o-Xylene	ug/L	50	53.5	107	70-130	
p-Isopropyltoluene	ug/L	50	67.1	134	70-130	L0
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	44.3	89	62-133	
Vinyl acetate	ug/L	100	73.0	73	66-157	
Vinyl chloride	ug/L	50	43.1	86	69-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698369 698370

Parameter	Units	92107493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.6	55.1	113	110	70-166	3	
Benzene	ug/L	ND	50	50	57.5	55.7	115	111	70-148	3	
Chlorobenzene	ug/L	ND	50	50	53.3	51.2	107	102	70-146	4	
Toluene	ug/L	ND	50	50	52.7	51.2	105	102	70-155	3	
Trichloroethene	ug/L	ND	50	50	54.9	53.2	110	106	69-151	3	
1,2-Dichloroethane-d4 (S)	%						114	115	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Dibromofluoromethane (S)	%						116	117	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALIFIERS

Project: Clay Co. Landfill MW 11/30
Pace Project No.: 92107498

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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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: of

1490081

Section A Required Client Information:

Company: Environmental Inc
Address: PO Box 954
Cullowhee NC 28723
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Clay County Landfill
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC 624 x 1	Metals 200.7 x 1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92107498
1	Equipment Blank	W				11-30-11	1452		4			X						X			92107498001
2													X						X		
3																					
4	Trip Blank					11-30-11												X			92107498002
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brenda Buchan	11-30-11	1720	Mathy Tuma	11/30/11	1722				
	Mathy Tuma	12/1/11	1038	[signature]	12/1/11	1038	4.2	Y	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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: Env Inc Project # 92107498

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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.: 4.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/1/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: TMC **Date:** 12/8/11 **SRF Review:** TMC **Date:** 12/8/11