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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, E.I. Phone: (828) 281-3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Clay County Closed Municipal Solid Waste Facility	1160 Hinton Center Road (S.R. 1148), Hayesville, North Carolina 28904	22-01	.1600	December 22, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

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

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

Affix NC Licensed/ Professional Geologist Seal

Signature | Date

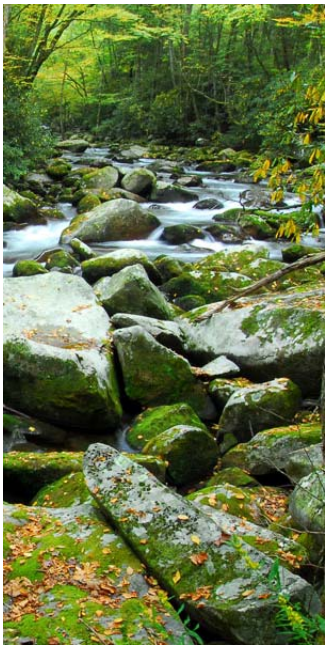
NORTH CAROLINA LICENSED SEAL 1906 GEOLOGIST Robert W. Hastings

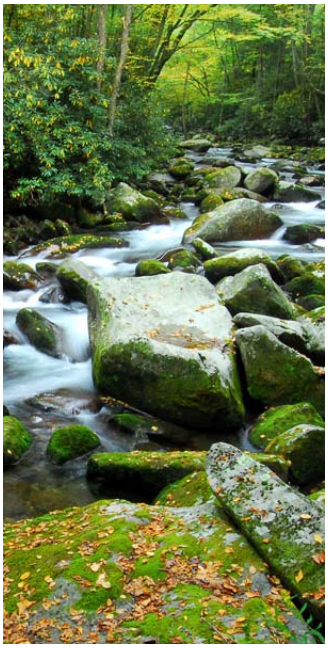
231 Haywood Street, Asheville, NC 28801

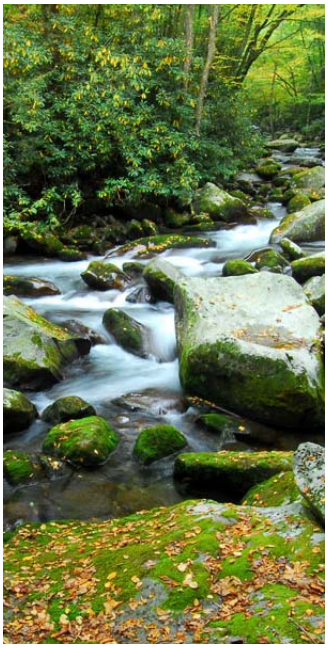
Facility Representative Address

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

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

December 2010
Water Quality Monitoring Report

Clay County Closed
Municipal Solid Waste Facility

Clay County, North Carolina
Permit #22-01

March 11, 2011

Prepared for
Clay County, North Carolina

Prepared by
Altamont Environmental, Inc.
231 Haywood Street
Asheville, NC 28801
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December 2010

Water Quality Monitoring Report

Clay County Closed Municipal Solid Waste Facility

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Robert Hastings, PG
Project Geologist

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1.0 Introduction

The Clay County Solid Waste Department maintains a closed municipal solid waste landfill (closed landfill) located at 1160 Hinton Center Road (State Road 1148) in Hayesville, Clay County, North Carolina (Figure 1). According to the Landfill Gas Monitoring Plan prepared by McGill Associates dated November 2010, the facility 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 December 2010. This report is being submitted in accordance with 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 in accordance with 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

The groundwater monitoring network consists of an upgradient, background monitoring well (2201-Well#1) and five downgradient monitoring wells (2201-Well#2, 2201-Well#3, 2201-Well#4, 2201-Well#5, and 2201-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 strategically 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.

Closed landfill monitoring wells (2201-Well#2, 2201-Well#3, 2201-Well#4, 2201-Well#5 and 2201-Well#6), and surface water sample locations (2201-Upstream and 2201-Downstream) were sampled by Environmental, Inc. of Sylva, North Carolina personnel on December 22, 2010 (Table 1). Monitoring well 2201-Well#1 was not sampled due to casing damage. Clay County is aware of this damage and plans to repair the well. Altamont instructed Environmental, Inc. regarding sampling procedures before the sampling event. Approximate sample locations are depicted on Figure 2.

2.1 Groundwater Purging and Sampling Methods

2.1.1 Monitoring Well Sampling Methods

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth at each of the wells was measured and recorded. At each sample location, 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 2; certificate of analysis is presented in Appendix A. Groundwater monitoring wells were then purged with a new disposable polyethylene bailer. As each consecutive well volume was removed with the bailer, an additional round of groundwater parameters was recorded. Each well was purged until three well volumes were removed and field parameters stabilized, or until the well had been bailed dry. Wells that were bailed dry were allowed to recharge prior to collecting a groundwater sample.

2.1.2 Surface Water Sampling Methods

Surface water samples 2201-Upstream and 2201-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 2201-Upstream location is assumed to represent surface water quality upstream of the closed landfill, while the surface water sample collected at the 2201-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 2).

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 A. Water-level measurements and field parameters are also included in Table 2. 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 B. Laboratory analyses performed on the samples are summarized in Table 1.

3.0 Findings

3.1 Analytical Results

The laboratory analytical results for the groundwater and surface water samples collected at the closed landfill are compiled in Table 2, which is displayed in the Electronic Data Deliverable (EDD) format specified by the DENR Solid Waste Section (SWS) memorandum dated October 27, 2006. The laboratory analytical report issued by Pace for this sampling event is included as Appendix B.

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

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

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

3.1.1 Groundwater Monitoring Wells

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

3.1.1.1 Appendix I Metals (EPA Methods 6010 and 7470)

The following metals were detected at concentrations above their associated SWSLs but below their applicable 2L Standards or GWPSs (Table 3 and Table 4):

- Barium (SWSL=100 micrograms per liter [µg/L]; 2L Standard=700 µg/L): 2201-Well#3 (163 µg/L), 2201-Well#4 (131 µg/L), 2201-Well#5 (226 µg/L) and 2201-Well#6 (223 µg/L)
- Copper (SWSL=10 µg/L; 2L Standard=1,000 µg/L): 2201-Well#3 (14.7 µg/L) and 2201-Well#4 (13.4 µg/L)
- Lead (SWSL=10 µg/L; 2L Standard=15 µg/L): 2201-Well#3 (10.7 µg/L)

- Mercury (SWSL=0.2 µg/L; 2L Standard=1 µg/L): 2201-Well#4 (0.38 µg/L)
- Zinc (SWSL=10 µg/L; 2L Standard=1,000 µg/L): 2201-Well#3 (29.1 µg/L)

The following metals were detected at concentrations above both their respective SWSLs and their respective 2L Standards or GWPSs (Table 3 and Table 4):

- Cobalt (SWSL=10 µg/L; GWPS=1 µg/L): 2201-Well#4 (24.1 µg/L), 2201-Well#5 (10.3 µg/L)
- Mercury (SWSL=0.2 µg/L; 2L Standard=1 µg/L): 2201-Well#5 (4.1 µg/L)

Vanadium was detected in two groundwater samples collected from 2201-Well#3 at 13.5 µg/L and 2201-Well#6 at 6.0 µg/L. Both detected concentrations are below the SWSL of 25 µg/L but above the GWPS of 0.3 µg/L.

The measured turbidity values for the groundwater samples from all of the monitoring wells ranged from 2.8 (for 2201-Well#4) to 44.4 (for 2201-Well#3) nephelometric turbidity units (NTUs) (Table 2 and Table 4).

3.1.1.2 Appendix I VOCs (EPA Method 8260)

No VOCs were detected in groundwater samples at concentrations above their associated SWSLs, 2L Standards, or GWPSs.

3.1.2 Surface Water

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

3.1.2.1 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.

3.1.2.2 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 Statistical Evaluation

A statistical analysis of the data was not conducted due to an inadequate number of sample analytical data-sets for the sampled wells. The monitoring well 2201-Well#1 that appears to be located upgradient at the landfill was not sampled during the December 2010 monitoring event due to a damaged casing.

4.0 Summary and Discussion

The following discussion summarizes the results of the December 2010 water quality monitoring event. Environmental, Inc. will continue to collect groundwater and surface water samples on an annual basis at the Clay County Closed Solid Waste Landfill. Altamont will continue to report metals and VOCs analytical results. The next sampling event is scheduled for the month of December in 2011.

4.1 Groundwater Quality

Analysis of data collected during the annual groundwater quality monitoring event conducted on December 22, 2010 at the Clay County Closed Landfill indicates that seven metals were detected in groundwater samples at concentrations above either their respective SWSLs or above their 2L Standards/ GWPSs, or both. The concentrations of three of these metals (cobalt, mercury, vanadium), exceeded their respective 2L Standards or GWPSs in one or more of the groundwater samples, as follows.

- Cobalt was detected in two wells, 2201-Well#4 (24.1 µg/L), 2201-Well#5 (10.3 µg/L), exceeding its GWPS of 1 µg/L.
- Mercury was detected in one well, 2201-Well#5 (4.1 µg/L), exceeding its 2L Standard of 1 µg/L.
- Vanadium was detected in two wells, 2201-Well#3 (13.5 µg/L) and 2201-Well#6 (6.0 µg/L), exceeding its GWPS of 0.3 µg/L.

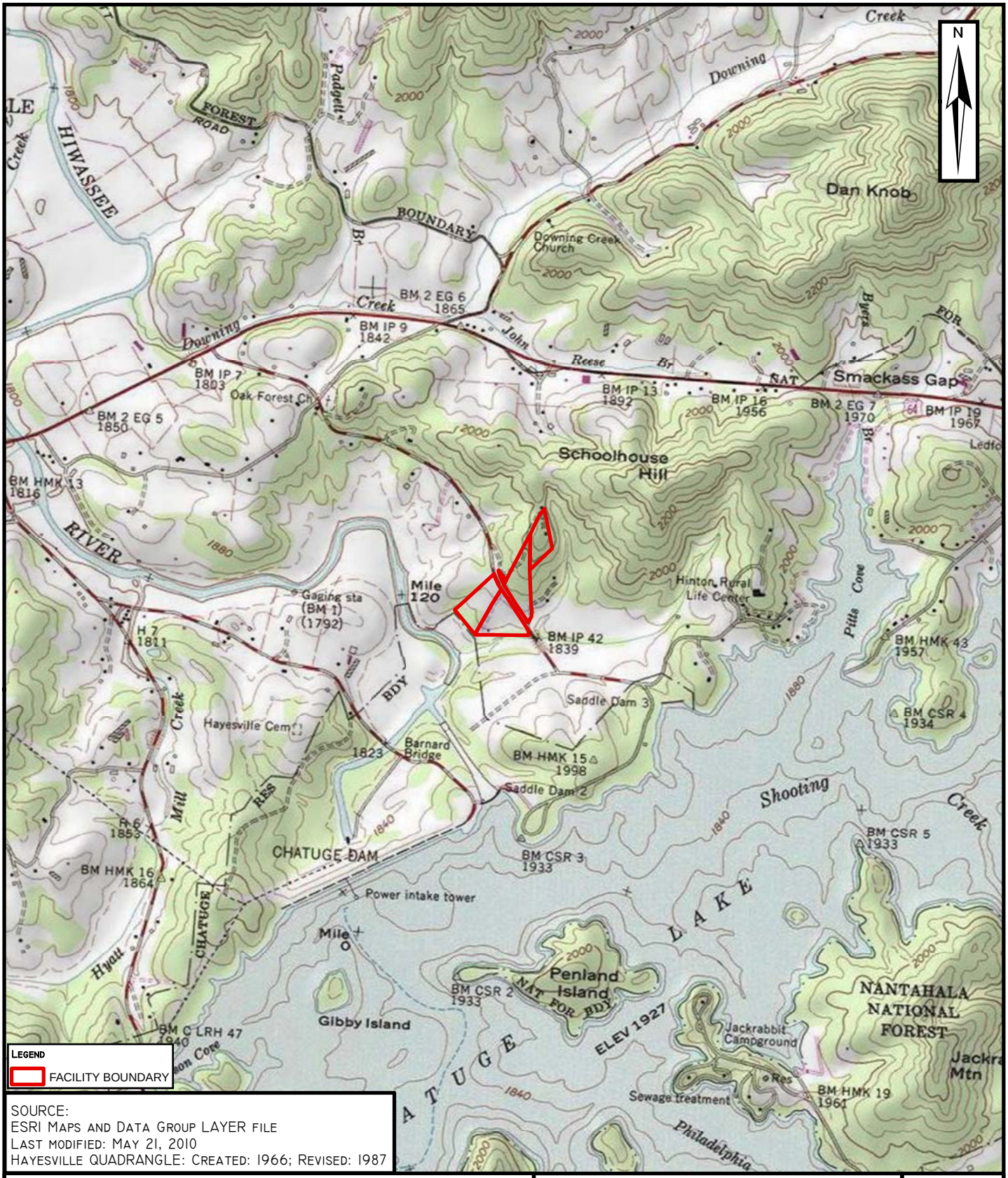
As described in Section 3.1, the turbidity values collected from monitoring well samples indicate that the samples contained solid particles from the formation in which the wells are screened. Naturally occurring metals tend to adsorb to the surfaces of these solid particles. The concentrations of metals 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.

No VOCs were detected in the groundwater at the closed landfill at concentrations above the associated SWSLs, 2L Standards, or GWPSs.

4.2 Surface Water Quality

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

FIGURES



SOURCE:
ESRI MAPS AND DATA GROUP LAYER FILE
LAST MODIFIED: MAY 21, 2010
HAYESVILLE QUADRANGLE: CREATED: 1966; REVISED: 1987

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DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: ENVIRONMENTAL, INC.
DATE: 02/24/2011

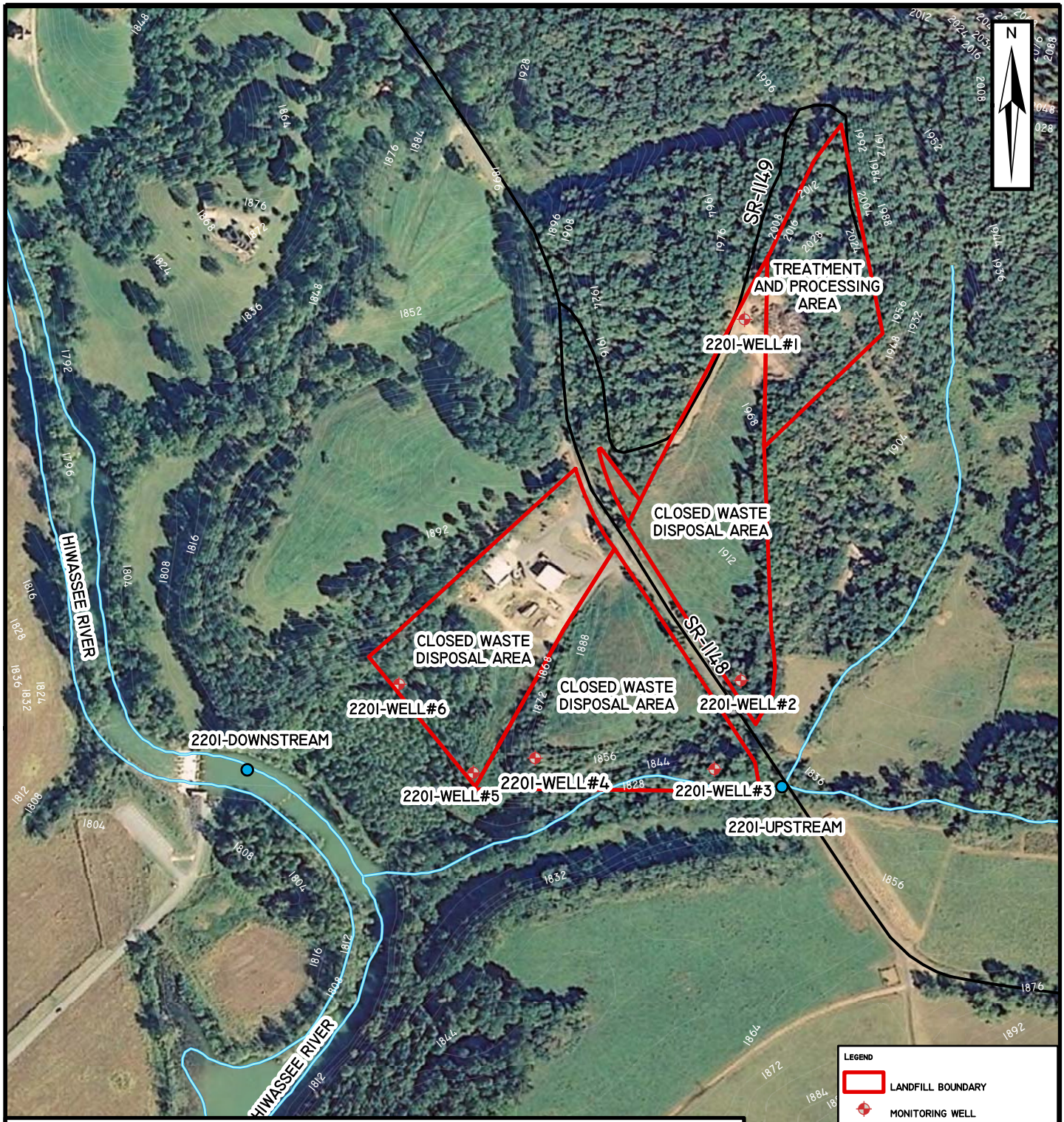
SCALE
0 500 1,000 2,000
FEET

SITE LOCATION MAP

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

FIGURE
1

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



NOTES:
1. MONITORING WELL LOCATIONS ARE APPROXIMATE AND BASED ON THE FACILITY PLAN PREPARED BY MCGILL ASSOCIATES DATED NOVEMBER 2010
2. 2201-MW#1 IS DAMAGED AND WAS NOT SAMPLED.

SOURCE:
ESRI MAP AND DATA GROUP THE WORLD IMAGERY LAYER (LYR) FILE LAST MODIFIED: MAY 21, 2010

LEGEND
- LANDFILL BOUNDARY
- MONITORING WELL
- ROADS
- RIVERS AND STREAMS
- 4-FOOT INTERVAL CONTOUR LINES
- SURFACE WATER LOCATION

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SITE LAYOUT MAP

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

FIGURE 2

DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: ENVIRONMENTAL, INC.
DATE: 02/24/2011

SCALE
0 100 200 400 FEET

P:\ENVIRONMENTAL INC\CLAY COUNTY\FIGURES\FIGURE 2 SITE LAYOUT MAP.MXD

TABLES

Table 1
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#2	12/22/2010	X	X
2201-WELL#3	12/22/2010	X	X
2201-WELL#4	12/22/2010	X	X
2201-WELL#5	12/22/2010	X	X
2201-WELL#6	12/22/2010	X	X
2201-EQUIPMENTBLANK	12/22/2010		X
2201-TRIPBLANK	12/22/2010		X
Surface Water Samples			
Sample Name	Date Collected	Appendix I Metals	VOCs
		EPA 6010, EPA 7470	EPA 8260
2201-UPSTREAM	12/22/2010	X	X
2201-DOWNSTREAM	12/22/2010	X	X

Notes:
VOCs = volatile organic compounds

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-39-3	15	Barium	67.4	ug/L	*J*	EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-50-8	54	Copper	0.3	ug/L	U	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7439-92-1	131	Lead	4.0	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#2	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#2	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-34-3	75	1,1-Dichloroethane	1.5	ug/L	*J*	EPA 8260	0.32	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#2	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	6.2	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-WELL#2	SW323	323	Specific Conductivity	46.2	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-WELL#2	SW325	325	Temperature	14.8	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-WELL#2	SW330	330	Turbidity	3.3	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-WELL#2	SW318	318	Depth to Water	23.5	ft TOC							12/22/2010			
22-01	2201-WELL#2	SW411	411	Total Well Depth	48.2	ft TOC							12/22/2010			
22-01	2201-WELL#3	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-39-3	15	Barium	163	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-47-3	51	Chromium	7.6	ug/L	J	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
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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#3	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-50-8	54	Copper	14.7	ug/L		EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7439-92-1	131	Lead	10.7	ug/L		EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#3	7440-02-0	152	Nickel	7.0	ug/L	J	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-62-2	209	Vanadium	**13.5**	ug/L		EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-66-6	213	Zinc	29.1	ug/L		EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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#3	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#3	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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					12/22/2010		12/22/2010	5090
22-01	2201-WELL#3	SW323	323	Specific Conductivity	57.4	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-WELL#3	SW325	325	Temperature	13.8	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-WELL#3	SW330	330	Turbidity	44.4	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-WELL#3	SW318	318	Depth to Water	7.9	ft TOC							12/22/2010			
22-01	2201-WELL#3	SW411	411	Total Well Depth	18	ft TOC							12/22/2010			
22-01	2201-WELL#4	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-39-3	15	Barium	131	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-48-4	53	Cobalt	**24.1**	ug/L		EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-50-8	54	Copper	13.4	ug/L		EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7439-97-6	132	Mercury	0.38	ug/L		EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#4	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40

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22-01	2201-WELL#4	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-34-3	75	1,1-Dichloroethane	1.3	ug/L	J	EPA 8260	0.32	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	156-59-2	78	cis-1,2-Dichloroethene	3.4	ug/L	J	EPA 8260	0.19	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12

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22-01	2201-WELL#4	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	1634-04-4	369	Methyl-tert-butyl ether	0.21	ug/L	U	EPA 8260	0.21	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#4	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	5.7	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-WELL#4	SW323	323	Specific Conductivity	238	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-WELL#4	SW325	325	Temperature	15.1	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-WELL#4	SW330	330	Turbidity	2.8	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-WELL#4	SW318	318	Depth to Water	35.6	ft TOC							12/22/2010			
22-01	2201-WELL#4	SW411	411	Total Well Depth	68.8	ft TOC							12/22/2010			
22-01	2201-WELL#5	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-39-3	15	Barium	226	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-48-4	53	Cobalt	**10.3**	ug/L		EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-50-8	54	Copper	8.1	ug/L	*J*	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7439-97-6	132	Mercury	**4.1**	ug/L		EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#5	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-34-3	75	1,1-Dichloroethane	1.8	ug/L	J	EPA 8260	0.32	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	156-59-2	78	cis-1,2-Dichloroethene	2.3	ug/L	J	EPA 8260	0.19	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	1634-04-4	369	Methyl-tert-butyl ether	1.8	ug/L	J	EPA 8260	0.21	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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#5	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#5	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	5.7	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-WELL#5	SW323	323	Specific Conductivity	168	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-WELL#5	SW325	325	Temperature	14.4	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-WELL#5	SW330	330	Turbidity	27.6	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-WELL#5	SW318	318	Depth to Water	9.7	ft TOC							12/22/2010			
22-01	2201-WELL#5	SW411	411	Total Well Depth	21.8	ft TOC							12/22/2010			
22-01	2201-WELL#6	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-39-3	15	Barium	223	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-50-8	54	Copper	0.3	ug/L	U	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#6	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-62-2	209	Vanadium	**6.0**	ug/L		EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#6	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-34-3	75	1,1-Dichloroethane	1.6	ug/L	J	EPA 8260	0.32	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	156-59-2	78	cis-1,2-Dichloroethene	2.7	ug/L	J	EPA 8260	0.19	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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#6	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-WELL#6	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	7.0	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-WELL#6	SW323	323	Specific Conductivity	358	µS		SM 2510B	1.0				12/22/2010		01/13/2011	37754
22-01	2201-WELL#6	SW325	325	Temperature	15.1	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-WELL#6	SW330	330	Turbidity	43.2	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-WELL#6	SW318	318	Depth to Water	20.6	ft TOC							12/22/2010			
22-01	2201-WELL#6	SW411	411	Total Well Depth	64.1	ft TOC							12/22/2010			
22-01	2201-UPSTREAM	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-39-3	15	Barium	35.8	ug/L	J	EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-50-8	54	Copper	0.3	ug/L	U	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-UPSTREAM	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12

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22-01	2201-UPSTREAM	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-UPSTREAM	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	7782-44-7	356	Dissolved Oxygen	NA	mg/L							12/22/2010			
22-01	2201-UPSTREAM	SW336	336	Oxygen Reduction Potential	NA	mV							12/22/2010			
22-01	2201-UPSTREAM	SW320	320	pH	6.6	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-UPSTREAM	SW323	323	Specific Conductivity	35.3	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-UPSTREAM	SW325	325	Temperature	11.1	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-UPSTREAM	SW330	330	Turbidity	3.0	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-DOWNSTREAM	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-39-3	15	Barium	7.2	ug/L	J	EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-50-8	54	Copper	0.3	ug/L	U	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-DOWNSTREAM	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	142-28-9	83	1,3-Dichloropropane	0.28	ug/L	U	EPA 8260	0.28	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	12/22/2010	01/05/2011	01/05/2011	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-DOWNSTREAM	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-DOWNSTREAM	7782-44-7	356	Dissolved Oxygen	NA	mg/L							12/22/2010			
22-01	2201-DOWNSTREAM	SW336	336	Oxygen Reduction Potential	NA	mV							12/22/2010			
22-01	2201-DOWNSTREAM	SW320	320	pH	7.9	SU		SM4500HB					12/22/2010		12/22/2010	5090
22-01	2201-DOWNSTREAM	SW323	323	Specific Conductivity	18.8	µS		SM 2510B	1.0				12/22/2010		01/04/2011	37754
22-01	2201-DOWNSTREAM	SW325	325	Temperature	7.5	°C		SM 2250B					12/22/2010		12/22/2010	5090
22-01	2201-DOWNSTREAM	SW330	330	Turbidity	1.9	NTU		SM 2130B	1.0				12/22/2010		12/23/2010	37754
22-01	2201-EQUIPMENTBLANK	7440-36-0	13	Antimony	2.6	ug/L	U	EPA 6010	2.6	5.0	6	1	12/22/2010	01/03/2011	01/05/2011	40

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 6010	2.7	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-39-3	15	Barium	0.2	ug/L	U	EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-41-7	23	Beryllium	0.1	ug/L	U	EPA 6010	0.1	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-43-9	34	Cadmium	0.5	ug/L	U	EPA 6010	0.5	1.0	1	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-47-3	51	Chromium	0.4	ug/L	U	EPA 6010	0.4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-48-4	53	Cobalt	0.6	ug/L	U	EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-50-8	54	Copper	0.3	ug/L	U	EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7439-92-1	131	Lead	4	ug/L	U	EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7439-97-6	132	Mercury	0.07	ug/L	U	EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-02-0	152	Nickel	1.7	ug/L	U	EPA 6010	1.7	5.0	50	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 6010	3.8	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-22-4	184	Silver	0.1	ug/L	U	EPA 6010	0.1	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-28-0	194	Thallium	3	ug/L	U	EPA 6010	3	5.4	5.5	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-62-2	209	Vanadium	0.2	ug/L	U	EPA 6010	0.2	5.0	25	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-EQUIPMENTBLANK	7440-66-6	213	Zinc	0.4	ug/L	U	EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12

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Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-EQUIPMENTBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.4	ug/L	U	EPA 8260	0.4	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	563-58-6	85	1,1-Dichloropropene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	95-49-8	364	2-Chlorotoluene	0.35	ug/L	U	EPA 8260	0.35	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	106-43-4	365	4-Chlorotoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	108-86-1	360	Bromobenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-71-8	74	Dichlorodifluoromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	5	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	108-20-3	366	Diisopropyl ether	0.12	ug/L	U	EPA 8260	0.12	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	100-41-4	110	Ethylbenzene	0.3	ug/L	U	EPA 8260	0.3	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	2.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	91-20-3	148	Naphthalene	0.24	ug/L	U	EPA 8260	0.24	1.0	10	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	99-87-6	368	p-Isopropyltoluene	0.31	ug/L	U	EPA 8260	0.31	1.0	NE	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	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	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	75-69-4	203	Trichlorofluoromethane	0.2	ug/L	U	EPA 8260	0.2	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12
22-01	2201-TRIPBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	12/22/2010	01/05/2011	01/05/2011	12

Table 2
Analytical Data and Field Parameters
Clay County Municipal Solid Waste Landfill, Hayesville, Clay County, North Carolina
December 2010

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	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	12/22/2010	01/05/2011	01/05/2011	12

Notes:

1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
3. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's 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.
7. "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.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
11. Bold numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
12. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on November 30, 2010).
15. "NE" means Not Established. "NA" means Not Analyzed. Blank cells indicate that there is no information relevant to the respective row.
16. Depth to water was measured from top of casing (TOC).

Table 3
Solid Waste Section Limit 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#3	7440-39-3	15	Barium	163	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-50-8	54	Copper	14.7	ug/L		EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7439-92-1	131	Lead	10.7	ug/L		EPA 6010	4	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#3	7440-66-6	213	Zinc	29.1	ug/L		EPA 6010	0.4	10.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-39-3	15	Barium	131	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-48-4	53	Cobalt	**24.1**	ug/L		EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7440-50-8	54	Copper	13.4	ug/L		EPA 6010	0.3	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#4	7439-97-6	132	Mercury	0.38	ug/L		EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#5	7440-39-3	15	Barium	226	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7440-48-4	53	Cobalt	**10.3**	ug/L		EPA 6010	0.6	5.0	10	1	12/22/2010	01/03/2011	01/05/2011	40
22-01	2201-WELL#5	7439-97-6	132	Mercury	**4.1**	ug/L		EPA 7470	0.07	0.20	0.2	1	12/22/2010	01/04/2011	01/05/2011	40
22-01	2201-WELL#6	7440-39-3	15	Barium	223	ug/L		EPA 6010	0.2	5.0	100	1	12/22/2010	01/03/2011	01/05/2011	40

Notes:

1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
3. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's 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.
7. "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.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
11. Bold numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
12. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on November 30, 2010).
15. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.

Table 4
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	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	2L STANDARD (µg/L)	GWPS (µg/L)	COLLECT DATE	ANALYSIS DATE	CAUSE AND SIGNIFICANCE
22-01	2201-WELL#3	7440-62-2	209	Vanadium	**13.5**	ug/L		EPA 6010	0.2	5.0	25	1	NE	0.3	12/22/2010	01/05/2011	Possibly naturally occurring. Turbidity of sample at 44.4 NTU.
22-01	2201-WELL#4	7440-48-4	53	Cobalt	**24.1**	ug/L		EPA 6010	0.6	5.0	10	1	NE	1.0	12/22/2010	01/05/2011	Possibly naturally occurring. Turbidity of sample at 2.8 NTU.
22-01	2201-WELL#5	7440-48-4	53	Cobalt	**10.3**	ug/L		EPA 6010	0.6	5.0	10	1	NE	1.0	12/22/2010	01/05/2011	Possibly naturally occurring. Turbidity of sample at 27.6 NTU.
22-01	2201-WELL#5	7439-97-6	132	Mercury	**4.1**	ug/L		EPA 7470	0.07	0.20	0.2	1	1.0	NE	12/22/2010	01/05/2011	
22-01	2201-WELL#6	7440-62-2	209	Vanadium	**6.0**	ug/L		EPA 6010	0.2	5.0	25	1	NE	0.3	12/22/2010	01/05/2011	Possibly naturally occurring. Turbidity of sample at 43.2 NTU.

Notes:

1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters. "SWS ID" is the Solid Waste Section Identification Number.
2. "Result" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
3. "Method Detection Limit" (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
4. "Method Reporting Limit" (MRL) is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL is listed under "Practical Quantitation Limit" (PQL) column in the laboratory analytical report.
5. "Method" is the analytical method used to analyze the constituents.
6. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the laboratory's 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.
7. "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.
8. "Dilution Factor" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect Date" is the date on which the sample was collected in the field. "Analysis Date" is the date on which the sample was analyzed by the lab.
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13. 2L Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
14. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on November 30, 2010).
15. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.

APPENDICES

APPENDIX A
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

February 14, 2011

Re: Clay County Landfills

Field Sheet Collection Date: 12/22/10

Wells	*1	2	3	4	5	6	Upstream	Downstream
Time		1240	1250	1310	1320	1325	1300	1330
Water Level	54.5'	23.5'	7.9'	35.6'	9.7'	20.6'		
Bottom of the Well	64.2'	48.2'	18'	68.8'	21.8'	64.1'		
Temp		14.8	13.8	15.1	14.4	15.1	11.1	7.5
pH		6.2	6.06	5.65	5.69	7.0	6.64	7.86
Pipe	2"	2"	2"	2"	2"	2"		

*Unable to sample well #1 due to a crushed pipe.

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: 12/22/2010
Date Received: 12/22/2010

RESULTS

Sample Identification: Upstream (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	11.1	-----	° C	12/22/2010	SM 2250 B	1
pH	6.6	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	35.3	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	3.0	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: Downstream (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	7.5	-----	° C	12/22/2010	SM 2250 B	1
pH	7.9	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	18.8	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	1.9	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010

Anthony Tirona

Anthony Tirona, Laboratory Supervisor

1/18/2011
Date

Report prepared: 1/18/2011 3:35 PM

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: MW#2(grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	14.8	-----	° C	12/22/2010	SM 2250 B	1
pH	6.2	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	46.2	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	3.3	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: MW#3 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	13.8	-----	° C	12/22/2010	SM 2250 B	1
pH	6.1	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	57.4	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	44.4	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: MW#4 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	15.1	-----	° C	12/22/2010	SM 2250 B	1
pH	5.7	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	238	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	2.8	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: MW#5 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	14.4	-----	° C	12/22/2010	SM 2250 B	1
pH	5.7	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	168	1.0	µmhos	1/4/2011	SM 2510B	
Turbidity	27.6	1.0	NTU	12/23/2010	SM 2130B	

Client Name: Clay County Landfill

Collection Date: 12/22/2010
Date Received: 12/22/2010

Sample Identification: MW#6 (grab)

Parameters	Result	MDL	Units	Date Analyzed	Method	Foot-notes
Temperature	15.1	-----	° C	12/22/2010	SM 2250 B	1
pH	7.0	-----	Std Units	12/22/2010	SM 4500 HB	1
Specific Conductance	358	1.0	µmhos	1/13/2010	SM 2510B	
Turbidity	43.2	1.0	NTU	12/23/2010	SM 2130B	

1. pH and temperature were analyzed in the field on 12/22/2010.

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

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

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

January 07, 2011

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

RE: Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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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(704)875-9092

CERTIFICATIONS

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284694001	**UPSTREAM CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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www.pacelabs.com

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

Sample: UPSTREAM CLAY COUNTY **Lab ID: 9284694001** Collected: 12/22/10 13:00 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:05	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:11	7440-38-2	
Barium	**35.8**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:11	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-48-4	
Copper	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:11	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:05	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:05	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:11	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 12:50	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 13:22	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 13:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 13:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 13:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 13:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 13:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 13:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 13:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 13:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 13:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 13:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 13:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 13:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 13:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 13:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 13:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 13:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 13:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 13:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/05/11 13:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 13:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 13:22	75-35-4	

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

ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

Sample: UPSTREAM CLAY COUNTY **Lab ID: 9284694001** Collected: 12/22/10 13:00 Received: 12/23/10 09:58 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		01/05/11 13:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 13:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 13:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 13:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 13:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 13:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 13:22	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 13:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 13:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 13:22	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 13:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 13:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 13:22	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 13:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 13:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 13:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 13:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 13:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 13:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 13:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 13:22	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 13:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 13:22	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/05/11 13:22	460-00-4	
Dibromofluoromethane (S)	115	%	70-130	1		01/05/11 13:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		01/05/11 13:22	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		01/05/11 13:22	2037-26-5	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284694001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284694001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

QC Batch: MSV/13624
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284694001

METHOD BLANK: 547284
Matrix: Water
Associated Lab Samples: 9284694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 10:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 10:40	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
2-Hexanone	ug/L	ND	5.0	01/05/11 10:40	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 10:40	
Acetone	ug/L	ND	25.0	01/05/11 10:40	
Benzene	ug/L	ND	1.0	01/05/11 10:40	
Bromobenzene	ug/L	ND	1.0	01/05/11 10:40	
Bromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromoform	ug/L	ND	1.0	01/05/11 10:40	
Bromomethane	ug/L	ND	2.0	01/05/11 10:40	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 10:40	
Chlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
Chloroethane	ug/L	ND	1.0	01/05/11 10:40	
Chloroform	ug/L	ND	1.0	01/05/11 10:40	
Chloromethane	ug/L	ND	1.0	01/05/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Dibromomethane	ug/L	ND	1.0	01/05/11 10:40	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 10:40	
Ethylbenzene	ug/L	ND	1.0	01/05/11 10:40	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

METHOD BLANK: 547284 Matrix: Water

Associated Lab Samples: 9284694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 10:40	
m&p-Xylene	ug/L	ND	2.0	01/05/11 10:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 10:40	
Methylene Chloride	ug/L	ND	2.0	01/05/11 10:40	
Naphthalene	ug/L	ND	1.0	01/05/11 10:40	
o-Xylene	ug/L	ND	1.0	01/05/11 10:40	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 10:40	
Styrene	ug/L	ND	1.0	01/05/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 10:40	
Toluene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Trichloroethene	ug/L	ND	1.0	01/05/11 10:40	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Vinyl acetate	ug/L	ND	2.0	01/05/11 10:40	
Vinyl chloride	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane-d4 (S)	%	116	70-130	01/05/11 10:40	
4-Bromofluorobenzene (S)	%	103	70-130	01/05/11 10:40	
Dibromofluoromethane (S)	%	114	70-130	01/05/11 10:40	
Toluene-d8 (S)	%	97	70-130	01/05/11 10:40	

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,2-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	44.5	89	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	43.5	87	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	46.7	93	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	43.1	86	70-130	
Bromobenzene	ug/L	50	45.1	90	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	50.4	101	54-130	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	49.4	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	52.7	105	56-130	
Diisopropyl ether	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Methylene Chloride	ug/L	50	46.7	93	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	43.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.1	86	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	49.4	99	62-133	
Vinyl acetate	ug/L	100	85.3	85	66-157	
Vinyl chloride	ug/L	50	50.4	101	69-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549105 549106

Parameter	Units	9284761008 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	52.2	50.5	104	101	70-166	3	
Benzene	ug/L	ND	50	50	50.0	49.2	100	98	70-148	2	H1
Chlorobenzene	ug/L	ND	50	50	51.8	51.8	104	104	70-146	0	
Toluene	ug/L	ND	50	50	50.1	49.7	100	99	70-155	1	
Trichloroethene	ug/L	1.9	50	50	53.6	52.5	103	101	69-151	2	
1,2-Dichloroethane-d4 (S)	%						113	112	70-130		
4-Bromofluorobenzene (S)	%						94	93	70-130		
Dibromofluoromethane (S)	%						108	107	70-130		
Toluene-d8 (S)	%						92	91	70-130		

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QUALIFIERS

Project: Clay Co. Landfill 12/23 A
Pace Project No.: 9284694

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.

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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.

Section A
Required Client Information:

Company: ENVIRONMENTAL INC
Address: PO Box 954
Collowhee 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 #:

Page: of
1319310

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	Analysis Test (Y/N) Metals Appx I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Upstream Clay County	WT	G			12-22-10	1300	11.1	4									X	X		9264694
2																					9264694001
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Dale Wike	12/22/10	1700	Anthony Crum	12/22/10	1700				
	Anthony Crum	12/23/10	958		12/23/10	09:58	1.2	Y	n	x
							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: Dale Wike
SIGNATURE of SAMPLER: Dale Wike
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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project # 9284694

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add/(Subtract) 0.2 c

Corrected Cooler Temp.: 1.2 c **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/23/10

		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: 12/29/10 **SRF Review:** TMC Date: 12/29/10

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

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January 07, 2011

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

RE: Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 B
Pace Project No.: 9284695

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284695001	**DOWNSTREAM**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

Sample: DOWNSTREAM **Lab ID: 9284695001** Collected: 12/22/10 13:30 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:09	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:24	7440-38-2	
Barium	**7.2**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-48-4	
Copper	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:24	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:09	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:09	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:24	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 12:58	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 13:48	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 13:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 13:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 13:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 13:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 13:48	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 13:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 13:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 13:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 13:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 13:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 13:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 13:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 13:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 13:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 13:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 13:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 13:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 13:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/05/11 13:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 13:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 13:48	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

Sample: DOWNSTREAM **Lab ID: 9284695001** Collected: 12/22/10 13:30 Received: 12/23/10 09:58 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		01/05/11 13:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 13:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 13:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 13:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 13:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 13:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 13:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 13:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 13:48	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 13:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 13:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 13:48	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 13:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 13:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 13:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 13:48	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 13:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 13:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 13:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 13:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 13:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 13:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 13:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 13:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 13:48	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 13:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 13:48	95-47-6	
4-Bromofluorobenzene (S)	29	%	70-130	1		01/05/11 13:48	460-00-4	S5
Dibromofluoromethane (S)	111	%	70-130	1		01/05/11 13:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		01/05/11 13:48	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		01/05/11 13:48	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284695001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284695001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

QC Batch: MSV/13624
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284695001

METHOD BLANK: 547284
Matrix: Water
Associated Lab Samples: 9284695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 10:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 10:40	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
2-Hexanone	ug/L	ND	5.0	01/05/11 10:40	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 10:40	
Acetone	ug/L	ND	25.0	01/05/11 10:40	
Benzene	ug/L	ND	1.0	01/05/11 10:40	
Bromobenzene	ug/L	ND	1.0	01/05/11 10:40	
Bromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromoform	ug/L	ND	1.0	01/05/11 10:40	
Bromomethane	ug/L	ND	2.0	01/05/11 10:40	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 10:40	
Chlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
Chloroethane	ug/L	ND	1.0	01/05/11 10:40	
Chloroform	ug/L	ND	1.0	01/05/11 10:40	
Chloromethane	ug/L	ND	1.0	01/05/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Dibromomethane	ug/L	ND	1.0	01/05/11 10:40	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 10:40	
Ethylbenzene	ug/L	ND	1.0	01/05/11 10:40	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

METHOD BLANK: 547284 Matrix: Water

Associated Lab Samples: 9284695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 10:40	
m&p-Xylene	ug/L	ND	2.0	01/05/11 10:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 10:40	
Methylene Chloride	ug/L	ND	2.0	01/05/11 10:40	
Naphthalene	ug/L	ND	1.0	01/05/11 10:40	
o-Xylene	ug/L	ND	1.0	01/05/11 10:40	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 10:40	
Styrene	ug/L	ND	1.0	01/05/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 10:40	
Toluene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Trichloroethene	ug/L	ND	1.0	01/05/11 10:40	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Vinyl acetate	ug/L	ND	2.0	01/05/11 10:40	
Vinyl chloride	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane-d4 (S)	%	116	70-130	01/05/11 10:40	
4-Bromofluorobenzene (S)	%	103	70-130	01/05/11 10:40	
Dibromofluoromethane (S)	%	114	70-130	01/05/11 10:40	
Toluene-d8 (S)	%	97	70-130	01/05/11 10:40	

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,2-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	44.5	89	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	43.5	87	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	46.7	93	70-130	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	43.1	86	70-130	
Bromobenzene	ug/L	50	45.1	90	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	50.4	101	54-130	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	49.4	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	52.7	105	56-130	
Diisopropyl ether	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Methylene Chloride	ug/L	50	46.7	93	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	43.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.1	86	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	49.4	99	62-133	
Vinyl acetate	ug/L	100	85.3	85	66-157	
Vinyl chloride	ug/L	50	50.4	101	69-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549105 549106

Parameter	Units	9284761008 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	52.2	50.5	104	101	70-166	3	
Benzene	ug/L	ND	50	50	50.0	49.2	100	98	70-148	2	H1
Chlorobenzene	ug/L	ND	50	50	51.8	51.8	104	104	70-146	0	
Toluene	ug/L	ND	50	50	50.1	49.7	100	99	70-155	1	
Trichloroethene	ug/L	1.9	50	50	53.6	52.5	103	101	69-151	2	
1,2-Dichloroethane-d4 (S)	%						113	112	70-130		
4-Bromofluorobenzene (S)	%						94	93	70-130		
Dibromofluoromethane (S)	%						108	107	70-130		
Toluene-d8 (S)	%						92	91	70-130		

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QUALIFIERS

Project: Clay Co. Landfill 12/23 B
Pace Project No.: 9284695

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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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.

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 #:

Page: of
1319314

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 Appx I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Downstream	WT	G			122210	1330	7.5	4									N	N		9284695
2																					9284695001
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)
	Dale Wike	12/22/10	1700	Anthony Chance	12/22/10	1700				
	Anthony Chance	12/23/10	958	[illegible]	12/23/10	09:58	1.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dale Wike
SIGNATURE of SAMPLER: Dale Wike
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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project # 9284695

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add/Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 12/23

		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: DM Date: 12/29/10 **SRF Review:** DM Date: 12/29/10

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

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January 07, 2011

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

RE: Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 C
Pace Project No.: 9284696

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284696001	**WELL # 2 CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

Sample: WELL # 2 CLAY COUNTY **Lab ID: 9284696001** Collected: 12/22/10 12:40 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:12	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:27	7440-38-2	
Barium	**67.4**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:12	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-48-4	
Copper	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:12	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:12	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:12	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:27	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:01	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 14:13	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 14:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 14:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 14:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 14:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 14:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 14:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 14:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 14:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 14:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 14:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 14:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 14:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 14:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 14:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 14:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 14:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 14:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 14:13	75-71-8	
1,1-Dichloroethane	**1.5**	ug/L	1.0	1		01/05/11 14:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 14:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 14:13	75-35-4	

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(704)875-9092

ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

Sample: WELL # 2 CLAY COUNTY **Lab ID: 9284696001** Collected: 12/22/10 12:40 Received: 12/23/10 09:58 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		01/05/11 14:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 14:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 14:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 14:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 14:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 14:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 14:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 14:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 14:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 14:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 14:13	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 14:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 14:13	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 14:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 14:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 14:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 14:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 14:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 14:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 14:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 14:13	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 14:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 14:13	95-47-6	
4-Bromofluorobenzene (S)	159	%	70-130	1		01/05/11 14:13	460-00-4	S6
Dibromofluoromethane (S)	115	%	70-130	1		01/05/11 14:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130	1		01/05/11 14:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		01/05/11 14:13	2037-26-5	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284696001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284696001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284696001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284696001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

QC Batch: MSV/13624
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284696001

METHOD BLANK: 547284
Matrix: Water
Associated Lab Samples: 9284696001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 10:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 10:40	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
2-Hexanone	ug/L	ND	5.0	01/05/11 10:40	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 10:40	
Acetone	ug/L	ND	25.0	01/05/11 10:40	
Benzene	ug/L	ND	1.0	01/05/11 10:40	
Bromobenzene	ug/L	ND	1.0	01/05/11 10:40	
Bromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromoform	ug/L	ND	1.0	01/05/11 10:40	
Bromomethane	ug/L	ND	2.0	01/05/11 10:40	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 10:40	
Chlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
Chloroethane	ug/L	ND	1.0	01/05/11 10:40	
Chloroform	ug/L	ND	1.0	01/05/11 10:40	
Chloromethane	ug/L	ND	1.0	01/05/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Dibromomethane	ug/L	ND	1.0	01/05/11 10:40	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 10:40	
Ethylbenzene	ug/L	ND	1.0	01/05/11 10:40	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

METHOD BLANK: 547284 Matrix: Water

Associated Lab Samples: 9284696001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 10:40	
m&p-Xylene	ug/L	ND	2.0	01/05/11 10:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 10:40	
Methylene Chloride	ug/L	ND	2.0	01/05/11 10:40	
Naphthalene	ug/L	ND	1.0	01/05/11 10:40	
o-Xylene	ug/L	ND	1.0	01/05/11 10:40	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 10:40	
Styrene	ug/L	ND	1.0	01/05/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 10:40	
Toluene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Trichloroethene	ug/L	ND	1.0	01/05/11 10:40	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Vinyl acetate	ug/L	ND	2.0	01/05/11 10:40	
Vinyl chloride	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane-d4 (S)	%	116	70-130	01/05/11 10:40	
4-Bromofluorobenzene (S)	%	103	70-130	01/05/11 10:40	
Dibromofluoromethane (S)	%	114	70-130	01/05/11 10:40	
Toluene-d8 (S)	%	97	70-130	01/05/11 10:40	

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,2-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	44.5	89	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	43.5	87	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	46.7	93	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	43.1	86	70-130	
Bromobenzene	ug/L	50	45.1	90	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	50.4	101	54-130	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	49.4	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	52.7	105	56-130	
Diisopropyl ether	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Methylene Chloride	ug/L	50	46.7	93	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	43.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.1	86	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	49.4	99	62-133	
Vinyl acetate	ug/L	100	85.3	85	66-157	
Vinyl chloride	ug/L	50	50.4	101	69-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549105 549106

Parameter	Units	9284761008 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	52.2	50.5	104	101	70-166	3	
Benzene	ug/L	ND	50	50	50.0	49.2	100	98	70-148	2	H1
Chlorobenzene	ug/L	ND	50	50	51.8	51.8	104	104	70-146	0	
Toluene	ug/L	ND	50	50	50.1	49.7	100	99	70-155	1	
Trichloroethene	ug/L	1.9	50	50	53.6	52.5	103	101	69-151	2	
1,2-Dichloroethane-d4 (S)	%						113	112	70-130		
4-Bromofluorobenzene (S)	%						94	93	70-130		
Dibromofluoromethane (S)	%						108	107	70-130		
Toluene-d8 (S)	%						92	91	70-130		

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(828)254-7176

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

QUALIFIERS

Project: Clay Co. Landfill 12/23 C
Pace Project No.: 9284696

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
S6	Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

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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

1319308

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	Preservatives: 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.
1	Well #2 Clay County	WT	G			12-22-10	1240	14.8	4												9254696
2																		A	X		9254696001
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)
	Dale Wilge	12-22-10	1615	Matthew Crane	12/22/10	1700				
	Matthew Crane	12/23/10	938	[illegible]	12/23/10	09:38	1.2	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dale Wilge

SIGNATURE of SAMPLER: Dale Wilge

DATE Signed (MM/DD/YY): 12-22-10

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project # 9284696

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 12/23/10

		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: TMW Date: 12/29/10 **SRF Review:** DMW Date: 12/29/10

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

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January 07, 2011

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

RE: Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 D
Pace Project No.: 9284697

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284697001	**WELL # 3 CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

Sample: WELL # 3 CLAY COUNTY **Lab ID: 9284697001** Collected: 12/22/10 12:50 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:15	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:31	7440-38-2	
Barium	**163**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:31	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:15	7440-43-9	
Chromium	**7.6**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-48-4	
Copper	**14.7**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-50-8	
Lead	**10.7**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7439-92-1	
Nickel	**7.0**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:31	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:15	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:15	7440-28-0	
Vanadium	**13.5**	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:31	7440-62-2	
Zinc	**29.1**	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:03	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 14:39	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 14:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 14:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 14:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 14:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 14:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 14:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 14:39	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 14:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 14:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 14:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 14:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 14:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 14:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 14:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 14:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 14:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 14:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 14:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/05/11 14:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 14:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 14:39	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

Sample: WELL # 3 CLAY COUNTY **Lab ID: 9284697001** Collected: 12/22/10 12:50 Received: 12/23/10 09:58 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		01/05/11 14:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 14:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 14:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 14:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 14:39	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 14:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 14:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 14:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 14:39	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 14:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 14:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 14:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 14:39	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 14:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 14:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 14:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 14:39	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 14:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 14:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 14:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 14:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 14:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 14:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 14:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 14:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 14:39	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 14:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 14:39	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/05/11 14:39	460-00-4	
Dibromofluoromethane (S)	117	%	70-130	1		01/05/11 14:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		01/05/11 14:39	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		01/05/11 14:39	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284697001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284697001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284697001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284697001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

QC Batch: MSV/13624
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284697001

METHOD BLANK: 547284
Matrix: Water
Associated Lab Samples: 9284697001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 10:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 10:40	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
2-Hexanone	ug/L	ND	5.0	01/05/11 10:40	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 10:40	
Acetone	ug/L	ND	25.0	01/05/11 10:40	
Benzene	ug/L	ND	1.0	01/05/11 10:40	
Bromobenzene	ug/L	ND	1.0	01/05/11 10:40	
Bromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromoform	ug/L	ND	1.0	01/05/11 10:40	
Bromomethane	ug/L	ND	2.0	01/05/11 10:40	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 10:40	
Chlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
Chloroethane	ug/L	ND	1.0	01/05/11 10:40	
Chloroform	ug/L	ND	1.0	01/05/11 10:40	
Chloromethane	ug/L	ND	1.0	01/05/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Dibromomethane	ug/L	ND	1.0	01/05/11 10:40	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 10:40	
Ethylbenzene	ug/L	ND	1.0	01/05/11 10:40	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

METHOD BLANK: 547284 Matrix: Water

Associated Lab Samples: 9284697001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 10:40	
m&p-Xylene	ug/L	ND	2.0	01/05/11 10:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 10:40	
Methylene Chloride	ug/L	ND	2.0	01/05/11 10:40	
Naphthalene	ug/L	ND	1.0	01/05/11 10:40	
o-Xylene	ug/L	ND	1.0	01/05/11 10:40	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 10:40	
Styrene	ug/L	ND	1.0	01/05/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 10:40	
Toluene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Trichloroethene	ug/L	ND	1.0	01/05/11 10:40	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Vinyl acetate	ug/L	ND	2.0	01/05/11 10:40	
Vinyl chloride	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane-d4 (S)	%	116	70-130	01/05/11 10:40	
4-Bromofluorobenzene (S)	%	103	70-130	01/05/11 10:40	
Dibromofluoromethane (S)	%	114	70-130	01/05/11 10:40	
Toluene-d8 (S)	%	97	70-130	01/05/11 10:40	

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,2-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	44.5	89	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	43.5	87	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	46.7	93	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	43.1	86	70-130	
Bromobenzene	ug/L	50	45.1	90	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	50.4	101	54-130	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	49.4	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	52.7	105	56-130	
Diisopropyl ether	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Methylene Chloride	ug/L	50	46.7	93	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	43.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.1	86	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	49.4	99	62-133	
Vinyl acetate	ug/L	100	85.3	85	66-157	
Vinyl chloride	ug/L	50	50.4	101	69-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549105 549106

Parameter	Units	9284761008 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	52.2	50.5	104	101	70-166	3	
Benzene	ug/L	ND	50	50	50.0	49.2	100	98	70-148	2	H1
Chlorobenzene	ug/L	ND	50	50	51.8	51.8	104	104	70-146	0	
Toluene	ug/L	ND	50	50	50.1	49.7	100	99	70-155	1	
Trichloroethene	ug/L	1.9	50	50	53.6	52.5	103	101	69-151	2	
1,2-Dichloroethane-d4 (S)	%						113	112	70-130		
4-Bromofluorobenzene (S)	%						94	93	70-130		
Dibromofluoromethane (S)	%						108	107	70-130		
Toluene-d8 (S)	%						92	91	70-130		

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QUALIFIERS

Project: Clay Co. Landfill 12/23 D
Pace Project No.: 9284697

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.

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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

1319309

Section A
Required Client Information:

Company: Environmental ins
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 hand
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	Preservatives: 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. 9284697
1	well #3 Clay County	WT	G		1'	122210	12:50	13.8	4									X	X		9284697001
2																					
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)
	Dale Wike	12-22-10	1622	[illegible]	12/22/10	1701				
	[illegible]	12/23/10	958	[illegible]	12/23/10	09:58	1.2	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dale Wike
SIGNATURE of SAMPLER: Dale Wike
DATE Signed (MM/DD/YY): 12-22-10

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project #

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

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

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 6/12/23

		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: DMC Date: 12/29/10 **SRF Review:** DMC Date: 12/29/10

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

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January 26, 2011

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

RE: Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton for
Tom Williams
tom.williams@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284698001	**WELL # 4 CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	TLS	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

Sample: WELL # 4 CLAY COUNTY **Lab ID: 9284698001** Collected: 12/22/10 13:10 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:19	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:34	7440-38-2	
Barium	**131**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:34	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-47-3	
Cobalt	**24.1**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-48-4	
Copper	**13.4**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:19	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:19	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:19	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:34	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.38**	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:06	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 19:31	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 19:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 19:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 19:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 19:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 19:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 19:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 19:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 19:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 19:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 19:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 19:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 19:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 19:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 19:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 19:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 19:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 19:31	75-71-8	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		01/05/11 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 19:31	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

Sample: WELL # 4 CLAY COUNTY **Lab ID: 9284698001** Collected: 12/22/10 13:10 Received: 12/23/10 09:58 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	**3.4**	ug/L	1.0	1		01/05/11 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 19:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 19:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 19:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 19:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 19:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 19:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 19:31	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 19:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 19:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 19:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 19:31	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 19:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 19:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 19:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 19:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 19:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 19:31	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 19:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 19:31	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/11 19:31	460-00-4	
Dibromofluoromethane (S)	100	%	70-130	1		01/05/11 19:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/05/11 19:31	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		01/05/11 19:31	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284698001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284698001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284698001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284698001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

QC Batch: MSV/13663
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284698001

METHOD BLANK: 548721
Matrix: Water
Associated Lab Samples: 9284698001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 19:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 19:08	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
2-Hexanone	ug/L	ND	5.0	01/05/11 19:08	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 19:08	
Acetone	ug/L	ND	25.0	01/05/11 19:08	
Benzene	ug/L	ND	1.0	01/05/11 19:08	
Bromobenzene	ug/L	ND	1.0	01/05/11 19:08	
Bromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromoform	ug/L	ND	1.0	01/05/11 19:08	
Bromomethane	ug/L	ND	2.0	01/05/11 19:08	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 19:08	
Chlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
Chloroethane	ug/L	ND	1.0	01/05/11 19:08	
Chloroform	ug/L	ND	1.0	01/05/11 19:08	
Chloromethane	ug/L	ND	1.0	01/05/11 19:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Dibromomethane	ug/L	ND	1.0	01/05/11 19:08	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 19:08	
Ethylbenzene	ug/L	ND	1.0	01/05/11 19:08	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

METHOD BLANK: 548721 Matrix: Water

Associated Lab Samples: 9284698001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 19:08	
m&p-Xylene	ug/L	ND	2.0	01/05/11 19:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 19:08	
Methylene Chloride	ug/L	ND	2.0	01/05/11 19:08	
Naphthalene	ug/L	ND	1.0	01/05/11 19:08	
o-Xylene	ug/L	ND	1.0	01/05/11 19:08	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 19:08	
Styrene	ug/L	ND	1.0	01/05/11 19:08	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 19:08	
Toluene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Trichloroethene	ug/L	ND	1.0	01/05/11 19:08	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Vinyl acetate	ug/L	ND	2.0	01/05/11 19:08	
Vinyl chloride	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/05/11 19:08	
4-Bromofluorobenzene (S)	%	98	70-130	01/05/11 19:08	
Dibromofluoromethane (S)	%	99	70-130	01/05/11 19:08	
Toluene-d8 (S)	%	93	70-130	01/05/11 19:08	

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	70-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	43.0	86	70-132	
1,1-Dichloropropene	ug/L	50	45.2	90	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.4	93	70-135	
1,2,3-Trichloropropane	ug/L	50	46.4	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.6	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,3-Dichloropropane	ug/L	50	51.0	102	70-130	
1,4-Dichlorobenzene	ug/L	50	45.0	90	70-130	
2,2-Dichloropropane	ug/L	50	45.3	91	58-145	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Chlorotoluene	ug/L	50	51.6	103	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	99.5	99	70-144	
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.7	97	70-140	
Acetone	ug/L	100	118	118	50-175	
Benzene	ug/L	50	45.3	91	70-130	
Bromobenzene	ug/L	50	48.0	96	70-130	
Bromochloromethane	ug/L	50	46.7	93	70-130	
Bromodichloromethane	ug/L	50	46.2	92	70-130	
Bromoform	ug/L	50	48.2	96	70-130	
Bromomethane	ug/L	50	37.2	74	54-130	
Carbon tetrachloride	ug/L	50	46.4	93	70-132	
Chlorobenzene	ug/L	50	45.1	90	70-130	
Chloroethane	ug/L	50	38.2	76	64-134	
Chloroform	ug/L	50	43.9	88	70-130	
Chloromethane	ug/L	50	34.4	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	46.8	94	70-130	
Dibromomethane	ug/L	50	47.9	96	70-131	
Dichlorodifluoromethane	ug/L	50	32.9	66	56-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethylbenzene	ug/L	50	48.5	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	45.9	92	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	48.5	97	70-130	
Methylene Chloride	ug/L	50	43.7	87	63-130	
Naphthalene	ug/L	50	45.9	92	70-138	
o-Xylene	ug/L	50	48.2	96	70-130	
p-Isopropyltoluene	ug/L	50	47.0	94	70-130	
Styrene	ug/L	50	46.6	93	70-130	
Tetrachloroethene	ug/L	50	46.5	93	70-130	
Toluene	ug/L	50	45.5	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
Trichloroethene	ug/L	50	47.0	94	70-130	
Trichlorofluoromethane	ug/L	50	35.1	70	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	43.5	87	69-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALIFIERS

Project: Clay Co. Landfill 12/23 E
Pace Project No.: 9284698

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

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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

1319309

Section A
Required Client Information:

Company: Environmental ins
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 hand
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	Preservatives: 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. 9284697
1	well #3 Clay County	WT	G		1'	122210	12:50	13.8	4									X	X		9284697001
2																					
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)
	Dale Wike	12-22-10	1622	[illegible]	12/22/10	1701				
	[illegible]	12/23/10	958	[illegible]	12/23/10	09:58	1.2	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dale Wike
SIGNATURE of SAMPLER: Dale Wike
DATE Signed (MM/DD/YY): 12-22-10

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project #

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

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

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 6/12/23

		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: DMC Date: 12/29/10 **SRF Review:** DMC Date: 12/29/10

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

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January 12, 2011

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

RE: Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 F
Pace Project No.: 9284699

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284699001	**WELL # 5 CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	TLS	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

Sample: WELL # 5 CLAY COUNTY **Lab ID: 9284699001** Collected: 12/22/10 13:20 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:22	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:38	7440-38-2	
Barium	**226**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:38	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:22	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-47-3	
Cobalt	**10.3**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-48-4	
Copper	**8.1**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:38	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:22	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:22	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:38	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**4.1**	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:09	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 19:54	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 19:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 19:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 19:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 19:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 19:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 19:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 19:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 19:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 19:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 19:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 19:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 19:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 19:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 19:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 19:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 19:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 19:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 19:54	75-71-8	
1,1-Dichloroethane	**1.8**	ug/L	1.0	1		01/05/11 19:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 19:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 19:54	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

Sample: WELL # 5 CLAY COUNTY **Lab ID: 9284699001** Collected: 12/22/10 13:20 Received: 12/23/10 09:58 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	**2.3**	ug/L	1.0	1		01/05/11 19:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 19:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 19:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 19:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 19:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 19:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 19:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 19:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 19:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 19:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 19:54	108-10-1	
Methyl-tert-butyl ether	**1.8**	ug/L	1.0	1		01/05/11 19:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 19:54	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 19:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 19:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 19:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 19:54	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 19:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 19:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 19:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 19:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 19:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 19:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 19:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 19:54	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 19:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 19:54	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/05/11 19:54	460-00-4	
Dibromofluoromethane (S)	115	%	70-130	1		01/05/11 19:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		01/05/11 19:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		01/05/11 19:54	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284699001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284699001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

QC Batch: MSV/13663
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284699001

METHOD BLANK: 548721
Matrix: Water
Associated Lab Samples: 9284699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 19:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 19:08	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
2-Hexanone	ug/L	ND	5.0	01/05/11 19:08	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 19:08	
Acetone	ug/L	ND	25.0	01/05/11 19:08	
Benzene	ug/L	ND	1.0	01/05/11 19:08	
Bromobenzene	ug/L	ND	1.0	01/05/11 19:08	
Bromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromoform	ug/L	ND	1.0	01/05/11 19:08	
Bromomethane	ug/L	ND	2.0	01/05/11 19:08	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 19:08	
Chlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
Chloroethane	ug/L	ND	1.0	01/05/11 19:08	
Chloroform	ug/L	ND	1.0	01/05/11 19:08	
Chloromethane	ug/L	ND	1.0	01/05/11 19:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Dibromomethane	ug/L	ND	1.0	01/05/11 19:08	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 19:08	
Ethylbenzene	ug/L	ND	1.0	01/05/11 19:08	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

METHOD BLANK: 548721 Matrix: Water

Associated Lab Samples: 9284699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 19:08	
m&p-Xylene	ug/L	ND	2.0	01/05/11 19:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 19:08	
Methylene Chloride	ug/L	ND	2.0	01/05/11 19:08	
Naphthalene	ug/L	ND	1.0	01/05/11 19:08	
o-Xylene	ug/L	ND	1.0	01/05/11 19:08	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 19:08	
Styrene	ug/L	ND	1.0	01/05/11 19:08	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 19:08	
Toluene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Trichloroethene	ug/L	ND	1.0	01/05/11 19:08	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Vinyl acetate	ug/L	ND	2.0	01/05/11 19:08	
Vinyl chloride	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/05/11 19:08	
4-Bromofluorobenzene (S)	%	98	70-130	01/05/11 19:08	
Dibromofluoromethane (S)	%	99	70-130	01/05/11 19:08	
Toluene-d8 (S)	%	93	70-130	01/05/11 19:08	

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	70-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	43.0	86	70-132	
1,1-Dichloropropene	ug/L	50	45.2	90	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.4	93	70-135	
1,2,3-Trichloropropane	ug/L	50	46.4	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.6	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,3-Dichloropropane	ug/L	50	51.0	102	70-130	
1,4-Dichlorobenzene	ug/L	50	45.0	90	70-130	
2,2-Dichloropropane	ug/L	50	45.3	91	58-145	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Chlorotoluene	ug/L	50	51.6	103	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	99.5	99	70-144	
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.7	97	70-140	
Acetone	ug/L	100	118	118	50-175	
Benzene	ug/L	50	45.3	91	70-130	
Bromobenzene	ug/L	50	48.0	96	70-130	
Bromochloromethane	ug/L	50	46.7	93	70-130	
Bromodichloromethane	ug/L	50	46.2	92	70-130	
Bromoform	ug/L	50	48.2	96	70-130	
Bromomethane	ug/L	50	37.2	74	54-130	
Carbon tetrachloride	ug/L	50	46.4	93	70-132	
Chlorobenzene	ug/L	50	45.1	90	70-130	
Chloroethane	ug/L	50	38.2	76	64-134	
Chloroform	ug/L	50	43.9	88	70-130	
Chloromethane	ug/L	50	34.4	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	46.8	94	70-130	
Dibromomethane	ug/L	50	47.9	96	70-131	
Dichlorodifluoromethane	ug/L	50	32.9	66	56-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethylbenzene	ug/L	50	48.5	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	45.9	92	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	48.5	97	70-130	
Methylene Chloride	ug/L	50	43.7	87	63-130	
Naphthalene	ug/L	50	45.9	92	70-138	
o-Xylene	ug/L	50	48.2	96	70-130	
p-Isopropyltoluene	ug/L	50	47.0	94	70-130	
Styrene	ug/L	50	46.6	93	70-130	
Tetrachloroethene	ug/L	50	46.5	93	70-130	
Toluene	ug/L	50	45.5	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
Trichloroethene	ug/L	50	47.0	94	70-130	
Trichlorofluoromethane	ug/L	50	35.1	70	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	43.5	87	69-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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(704)875-9092

QUALIFIERS

Project: Clay Co. Landfill 12/23 F
Pace Project No.: 9284699

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

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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

1319312

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: Lindsay 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 Appx	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9284699
1	well 5 Clay County	WT	G			122210	1320	14.4	4									X	X		92846990 01
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Dale Wilke	12/22/10	1700	Anthony Cuan	12/22/10	1700				
	Anthony Cuan	12/23/10	958	[illegible]	12/23/10	09:58	1.2	Y	n	Y

ORIGINAL

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dale Wilke
SIGNATURE of SAMPLER: Dale Wilke
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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project # 9284699

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/23

		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: 12/29/10 **SRF Review:** [signature] Date: 12/29/10

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

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January 12, 2011

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

RE: Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 G
Pace Project No.: 9284700

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284700001	**WELL # 6 CLAY COUNTY**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	TLS	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

Sample: WELL # 6 CLAY COUNTY **Lab ID: 9284700001** Collected: 12/22/10 13:25 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:26	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:41	7440-38-2	
Barium	**223**	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:26	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-48-4	
Copper	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:41	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:26	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:26	7440-28-0	
Vanadium	**6.0**	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:41	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:11	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 20:17	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 20:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 20:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 20:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 20:17	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 20:17	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 20:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 20:17	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 20:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 20:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 20:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 20:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 20:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 20:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 20:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 20:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 20:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 20:17	75-71-8	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		01/05/11 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 20:17	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

Sample: WELL # 6 CLAY COUNTY **Lab ID: 9284700001** Collected: 12/22/10 13:25 Received: 12/23/10 09:58 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	**2.7**	ug/L	1.0	1		01/05/11 20:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 20:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 20:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 20:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 20:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 20:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 20:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 20:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 20:17	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 20:17	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 20:17	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 20:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 20:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 20:17	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 20:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 20:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 20:17	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 20:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 20:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 20:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 20:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 20:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 20:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 20:17	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 20:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 20:17	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/05/11 20:17	460-00-4	
Dibromofluoromethane (S)	111	%	70-130	1		01/05/11 20:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		01/05/11 20:17	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		01/05/11 20:17	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284700001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284700001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284700001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284700001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

QC Batch: MSV/13663
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284700001

METHOD BLANK: 548721
Matrix: Water
Associated Lab Samples: 9284700001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 19:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 19:08	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 19:08	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
2-Hexanone	ug/L	ND	5.0	01/05/11 19:08	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 19:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 19:08	
Acetone	ug/L	ND	25.0	01/05/11 19:08	
Benzene	ug/L	ND	1.0	01/05/11 19:08	
Bromobenzene	ug/L	ND	1.0	01/05/11 19:08	
Bromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 19:08	
Bromoform	ug/L	ND	1.0	01/05/11 19:08	
Bromomethane	ug/L	ND	2.0	01/05/11 19:08	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 19:08	
Chlorobenzene	ug/L	ND	1.0	01/05/11 19:08	
Chloroethane	ug/L	ND	1.0	01/05/11 19:08	
Chloroform	ug/L	ND	1.0	01/05/11 19:08	
Chloromethane	ug/L	ND	1.0	01/05/11 19:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 19:08	
Dibromomethane	ug/L	ND	1.0	01/05/11 19:08	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 19:08	
Ethylbenzene	ug/L	ND	1.0	01/05/11 19:08	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

METHOD BLANK: 548721 Matrix: Water

Associated Lab Samples: 9284700001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 19:08	
m&p-Xylene	ug/L	ND	2.0	01/05/11 19:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 19:08	
Methylene Chloride	ug/L	ND	2.0	01/05/11 19:08	
Naphthalene	ug/L	ND	1.0	01/05/11 19:08	
o-Xylene	ug/L	ND	1.0	01/05/11 19:08	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 19:08	
Styrene	ug/L	ND	1.0	01/05/11 19:08	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 19:08	
Toluene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 19:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 19:08	
Trichloroethene	ug/L	ND	1.0	01/05/11 19:08	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 19:08	
Vinyl acetate	ug/L	ND	2.0	01/05/11 19:08	
Vinyl chloride	ug/L	ND	1.0	01/05/11 19:08	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/05/11 19:08	
4-Bromofluorobenzene (S)	%	98	70-130	01/05/11 19:08	
Dibromofluoromethane (S)	%	99	70-130	01/05/11 19:08	
Toluene-d8 (S)	%	93	70-130	01/05/11 19:08	

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	70-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	43.0	86	70-132	
1,1-Dichloropropene	ug/L	50	45.2	90	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.4	93	70-135	
1,2,3-Trichloropropane	ug/L	50	46.4	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.6	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,3-Dichloropropane	ug/L	50	51.0	102	70-130	
1,4-Dichlorobenzene	ug/L	50	45.0	90	70-130	
2,2-Dichloropropane	ug/L	50	45.3	91	58-145	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Chlorotoluene	ug/L	50	51.6	103	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

LABORATORY CONTROL SAMPLE: 548722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	99.5	99	70-144	
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.7	97	70-140	
Acetone	ug/L	100	118	118	50-175	
Benzene	ug/L	50	45.3	91	70-130	
Bromobenzene	ug/L	50	48.0	96	70-130	
Bromochloromethane	ug/L	50	46.7	93	70-130	
Bromodichloromethane	ug/L	50	46.2	92	70-130	
Bromoform	ug/L	50	48.2	96	70-130	
Bromomethane	ug/L	50	37.2	74	54-130	
Carbon tetrachloride	ug/L	50	46.4	93	70-132	
Chlorobenzene	ug/L	50	45.1	90	70-130	
Chloroethane	ug/L	50	38.2	76	64-134	
Chloroform	ug/L	50	43.9	88	70-130	
Chloromethane	ug/L	50	34.4	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	46.8	94	70-130	
Dibromomethane	ug/L	50	47.9	96	70-131	
Dichlorodifluoromethane	ug/L	50	32.9	66	56-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethylbenzene	ug/L	50	48.5	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	45.9	92	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	48.5	97	70-130	
Methylene Chloride	ug/L	50	43.7	87	63-130	
Naphthalene	ug/L	50	45.9	92	70-138	
o-Xylene	ug/L	50	48.2	96	70-130	
p-Isopropyltoluene	ug/L	50	47.0	94	70-130	
Styrene	ug/L	50	46.6	93	70-130	
Tetrachloroethene	ug/L	50	46.5	93	70-130	
Toluene	ug/L	50	45.5	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
Trichloroethene	ug/L	50	47.0	94	70-130	
Trichlorofluoromethane	ug/L	50	35.1	70	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	43.5	87	69-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALIFIERS

Project: Clay Co. Landfill 12/23 G
Pace Project No.: 9284700

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

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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

1319315

Section A Required Client Information:

Company: Environmental inc
Address: PO Box 954
Collowhee 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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	Metals Appl	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92 84700
1	well 6 Clay County	WT	G			122210	1325	15.1	4									X	X		92847000 01
2																					
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)
	Dale Witke	12/22/10	1700	Anthony Chan	12/22/10	1700				
	Anthony Chan	12/23/10	958	[signature]	12/23/10	09:58	1.2	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dale Witke
SIGNATURE of SAMPLER: Dale Witke
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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: ENV Inc Project # 9284700

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: L 12/23

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: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
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: TM Date: 12/29/18 **SRF Review:** TM Date: 12/29/18

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

Pace Analytical Services, Inc.
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January 12, 2011

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

RE: Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Dear Mr. Teague:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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 12/23 H
Pace Project No.: 9284701

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284701001	**EQUIPMENT BLANK**	EPA 6010	SHB	15	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	63	PASI-C
9284701002	**TRIP BLANK**	EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Sample: EQUIPMENT BLANK **Lab ID: 9284701001** Collected: 12/22/10 12:00 Received: 12/23/10 09:58 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	01/03/11 16:45	01/05/11 07:29	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:44	7440-38-2	
Barium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 18:44	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/05/11 07:29	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-47-3	
Cobalt	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-48-4	
Copper	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-50-8	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 18:44	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 07:29	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/03/11 16:45	01/05/11 07:29	7440-28-0	
Vanadium	ND	ug/L	5.0	1	01/03/11 16:45	01/05/11 18:44	7440-62-2	
Zinc	ND	ug/L	10.0	1	01/03/11 16:45	01/05/11 07:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 13:14	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/05/11 11:31	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 11:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 11:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 11:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 11:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 11:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 11:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 11:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 11:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 11:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 11:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 11:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 11:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 11:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 11:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 11:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 11:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 11:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 11:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/05/11 11:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 11:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 11:31	75-35-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Sample: EQUIPMENT BLANK **Lab ID: 9284701001** Collected: 12/22/10 12:00 Received: 12/23/10 09:58 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		01/05/11 11:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 11:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 11:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 11:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 11:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 11:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 11:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 11:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 11:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 11:31	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 11:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 11:31	127-18-4	
Toluene	ND	ug/L	1.0	1		01/05/11 11:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 11:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 11:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 11:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 11:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 11:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 11:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 11:31	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 11:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 11:31	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/11 11:31	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		01/05/11 11:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		01/05/11 11:31	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		01/05/11 11:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Sample: TRIP BLANK **Lab ID: 9284701002** Collected: 12/22/10 12:00 Received: 12/23/10 09:58 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		01/05/11 11:56	67-64-1	
Benzene	ND	ug/L	1.0	1		01/05/11 11:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/05/11 11:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/05/11 11:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/05/11 11:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/05/11 11:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/05/11 11:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/05/11 11:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/05/11 11:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/11 11:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/05/11 11:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/11 11:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 11:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/05/11 11:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/05/11 11:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/05/11 11:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/05/11 11:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/05/11 11:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/05/11 11:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/05/11 11:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/05/11 11:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/05/11 11:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 11:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/05/11 11:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/05/11 11:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/05/11 11:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/05/11 11:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/05/11 11:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/05/11 11:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/05/11 11:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/05/11 11:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/05/11 11:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/05/11 11:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/05/11 11:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/05/11 11:56	91-20-3	
Styrene	ND	ug/L	1.0	1		01/05/11 11:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 11:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/05/11 11:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/05/11 11:56	127-18-4	

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ANALYTICAL RESULTS

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

Sample: TRIP BLANK **Lab ID: 9284701002** Collected: 12/22/10 12:00 Received: 12/23/10 09:58 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		01/05/11 11:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/05/11 11:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/05/11 11:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/05/11 11:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/05/11 11:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/11 11:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/05/11 11:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/05/11 11:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/05/11 11:56	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		01/05/11 11:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/05/11 11:56	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/05/11 11:56	460-00-4	
Dibromofluoromethane (S)	112	%	70-130	1		01/05/11 11:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130	1		01/05/11 11:56	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		01/05/11 11:56	2037-26-5	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

QC Batch: MPRP/7674
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284701001

METHOD BLANK: 547771
Matrix: Water
Associated Lab Samples: 9284701001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	01/05/11 05:41	
Arsenic	ug/L	ND	5.0	01/05/11 17:46	
Barium	ug/L	ND	5.0	01/05/11 05:41	
Beryllium	ug/L	ND	1.0	01/05/11 05:41	
Cadmium	ug/L	ND	1.0	01/05/11 05:41	
Chromium	ug/L	ND	5.0	01/05/11 05:41	
Cobalt	ug/L	ND	5.0	01/05/11 05:41	
Copper	ug/L	ND	5.0	01/05/11 05:41	
Lead	ug/L	ND	5.0	01/05/11 05:41	
Nickel	ug/L	ND	5.0	01/05/11 05:41	
Selenium	ug/L	ND	10.0	01/05/11 05:41	
Silver	ug/L	ND	5.0	01/05/11 05:41	
Thallium	ug/L	ND	5.4	01/05/11 05:41	
Vanadium	ug/L	ND	5.0	01/05/11 05:41	
Zinc	ug/L	ND	10.0	01/05/11 05:41	

LABORATORY CONTROL SAMPLE: 547772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	513	103	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	501	100	80-120	
Copper	ug/L	500	539	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	514	103	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	514	103	80-120	
Vanadium	ug/L	500	548	110	80-120	
Zinc	ug/L	500	505	101	80-120	

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	516	103	75-125	
Arsenic	ug/L	ND	500	530	106	75-125	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

MATRIX SPIKE SAMPLE: 547773

Parameter	Units	9284195036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.040 mg/L	500	555	103	75-125	
Beryllium	ug/L	ND	500	526	105	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	500	99	75-125	
Cobalt	ug/L	ND	500	503	100	75-125	
Copper	ug/L	17.5	500	576	112	75-125	
Lead	ug/L	ND	500	494	99	75-125	
Nickel	ug/L	ND	500	503	100	75-125	
Selenium	ug/L	ND	500	526	105	75-125	
Silver	ug/L	ND	250	265	106	75-125	
Thallium	ug/L	ND	500	518	103	75-125	
Vanadium	ug/L	24.8	500	589	113	75-125	
Zinc	ug/L	ND	500	527	104	75-125	

SAMPLE DUPLICATE: 547774

Parameter	Units	9284195037 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.7J		
Arsenic	ug/L	0.0072 mg/L	5.7	23	
Barium	ug/L	1.5 mg/L	1470	1	
Beryllium	ug/L	4.1	3.9	5	
Cadmium	ug/L	0.0026 mg/L	2.3	16	
Chromium	ug/L	0.10 mg/L	101	1	
Cobalt	ug/L	ND	ND		
Copper	ug/L	314	307	2	
Lead	ug/L	0.039 mg/L	39.5	1	
Nickel	ug/L	54.7	53.8	2	
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	213	234	9	
Zinc	ug/L	191	190	1	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

QC Batch: MERP/3233
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284701001

METHOD BLANK: 547827
Matrix: Water
Associated Lab Samples: 9284701001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 12:06	

LABORATORY CONTROL SAMPLE: 547828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547829 547830

Parameter	Units	9284651011 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	2.0	2.2	81	85	75-125	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 547831 547832

Parameter	Units	9284651012 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	2.1	2.3	82	92	75-125	11	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

QC Batch: MSV/13624 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284701001, 9284701002

METHOD BLANK: 547284 Matrix: Water
Associated Lab Samples: 9284701001, 9284701002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
1,1-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/05/11 10:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
1,3-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
2,2-Dichloropropane	ug/L	ND	1.0	01/05/11 10:40	
2-Butanone (MEK)	ug/L	ND	5.0	01/05/11 10:40	
2-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
2-Hexanone	ug/L	ND	5.0	01/05/11 10:40	
4-Chlorotoluene	ug/L	ND	1.0	01/05/11 10:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/05/11 10:40	
Acetone	ug/L	ND	25.0	01/05/11 10:40	
Benzene	ug/L	ND	1.0	01/05/11 10:40	
Bromobenzene	ug/L	ND	1.0	01/05/11 10:40	
Bromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromodichloromethane	ug/L	ND	1.0	01/05/11 10:40	
Bromoform	ug/L	ND	1.0	01/05/11 10:40	
Bromomethane	ug/L	ND	2.0	01/05/11 10:40	
Carbon tetrachloride	ug/L	ND	1.0	01/05/11 10:40	
Chlorobenzene	ug/L	ND	1.0	01/05/11 10:40	
Chloroethane	ug/L	ND	1.0	01/05/11 10:40	
Chloroform	ug/L	ND	1.0	01/05/11 10:40	
Chloromethane	ug/L	ND	1.0	01/05/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Dibromochloromethane	ug/L	ND	1.0	01/05/11 10:40	
Dibromomethane	ug/L	ND	1.0	01/05/11 10:40	
Dichlorodifluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Diisopropyl ether	ug/L	ND	1.0	01/05/11 10:40	
Ethylbenzene	ug/L	ND	1.0	01/05/11 10:40	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

METHOD BLANK: 547284 Matrix: Water

Associated Lab Samples: 9284701001, 9284701002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/05/11 10:40	
m&p-Xylene	ug/L	ND	2.0	01/05/11 10:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/05/11 10:40	
Methylene Chloride	ug/L	ND	2.0	01/05/11 10:40	
Naphthalene	ug/L	ND	1.0	01/05/11 10:40	
o-Xylene	ug/L	ND	1.0	01/05/11 10:40	
p-Isopropyltoluene	ug/L	ND	1.0	01/05/11 10:40	
Styrene	ug/L	ND	1.0	01/05/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	01/05/11 10:40	
Toluene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/05/11 10:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/05/11 10:40	
Trichloroethene	ug/L	ND	1.0	01/05/11 10:40	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/11 10:40	
Vinyl acetate	ug/L	ND	2.0	01/05/11 10:40	
Vinyl chloride	ug/L	ND	1.0	01/05/11 10:40	
1,2-Dichloroethane-d4 (S)	%	116	70-130	01/05/11 10:40	
4-Bromofluorobenzene (S)	%	103	70-130	01/05/11 10:40	
Dibromofluoromethane (S)	%	114	70-130	01/05/11 10:40	
Toluene-d8 (S)	%	97	70-130	01/05/11 10:40	

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,2-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	44.5	89	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	43.5	87	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	46.7	93	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

LABORATORY CONTROL SAMPLE: 547285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	43.1	86	70-130	
Bromobenzene	ug/L	50	45.1	90	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	50.4	101	54-130	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	49.4	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	52.7	105	56-130	
Diisopropyl ether	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Methylene Chloride	ug/L	50	46.7	93	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	43.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.1	86	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	49.4	99	62-133	
Vinyl acetate	ug/L	100	85.3	85	66-157	
Vinyl chloride	ug/L	50	50.4	101	69-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549105 549106

Parameter	Units	9284761008 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	52.2	50.5	104	101	70-166	3	
Benzene	ug/L	ND	50	50	50.0	49.2	100	98	70-148	2	H1
Chlorobenzene	ug/L	ND	50	50	51.8	51.8	104	104	70-146	0	
Toluene	ug/L	ND	50	50	50.1	49.7	100	99	70-155	1	
Trichloroethene	ug/L	1.9	50	50	53.6	52.5	103	101	69-151	2	
1,2-Dichloroethane-d4 (S)	%						113	112	70-130		
4-Bromofluorobenzene (S)	%						94	93	70-130		
Dibromofluoromethane (S)	%						108	107	70-130		
Toluene-d8 (S)	%						92	91	70-130		

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QUALIFIERS

Project: Clay Co. Landfill 12/23 H
Pace Project No.: 9284701

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.

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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.

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 #:

Page: of
1319316

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 Appl I	Metals Appl I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9284701
1	Equipment Blank	ie				12/22/10	1200		4			X	X								
2																		X	X		9284701 001
3																					
4	TRIP BLANK					12/22/10															
5																		X			9284701 002
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Teague	12/22/10	1700		12/22/10	1700				
		12/23/10	958		12/23/10	09:58	1.2	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Env Inc Project # 9284701

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

IR Gun #3- 101938608 Bio- 14-648-49

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.2 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: L 12/23/10

		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	L
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: 12/29/10 **SRF Review:** [illegible] Date: 12/29/10

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