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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, 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)
Yancey-Mitchell Construction and Demolition Debris Landfill	Highway 80/Arbuckle Road Burnsville, NC 28714	100-02	.0500	September 13-14, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Joel D. Lenk, PG — Project Geologist — 828-281-3350

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

Signature — Date: 12-14-11

Affix NC Licensed/ Professional Geologist Seal

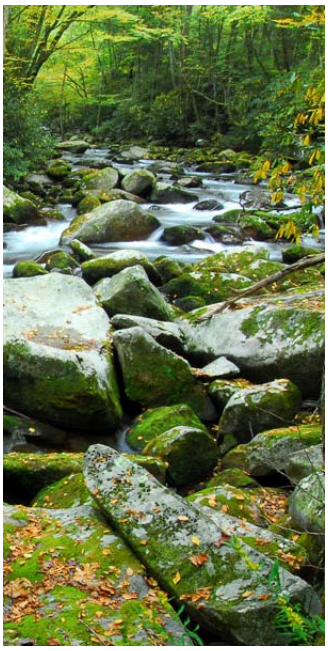
NORTH CAROLINA LICENSED SEAL 2044 GEOLOGIST JOEL D. LENK

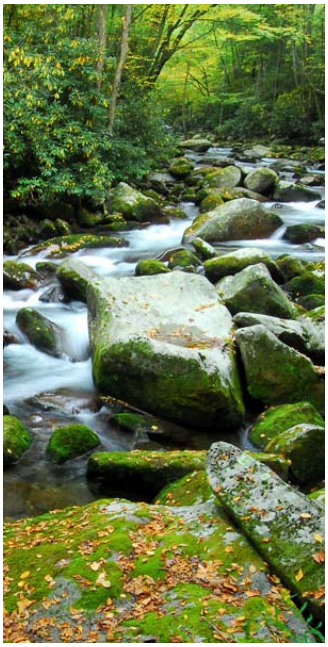
231 Haywood Street, Asheville, North Carolina 28801

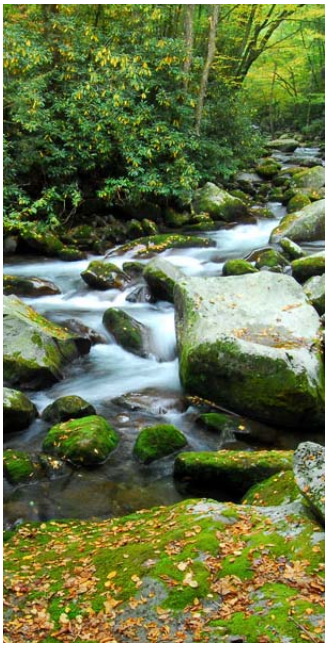
Facility Representative Address

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

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Fall 2011 Semiannual Water Quality Monitoring Report

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill

Yancey County, North Carolina
Permit #100-02

December 14, 2011

Prepared for
Yancey County, North Carolina
and Mitchell County, North Carolina
Project Number 2119.12

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

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December 14, 2011

Joel Lenk, P.G.
Project Geologist

Christopher F. Gilbert, P.E.
Project Engineer

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1.0 Introduction

The Yancey County Solid Waste Department operates a solid waste facility located on Arbuckle Road near U.S. Highway 80 in Burnsville, North Carolina (Figure 1). The facility accepts solid waste from both Yancey and Mitchell Counties, and includes the following permitted components:

- A closed municipal solid waste (MSW) Landfill (Permit 100-01)
- An inactive construction and demolition debris (C&D) Landfill (Permit 100-02)
- An active transfer station (Permit 100-03T)

The approximate locations of the two landfill units within the solid waste facility are shown on Figure 2. This report addresses water quality associated with the C&D Landfill. The water quality monitoring network for the C&D Landfill consists of two compliance monitoring wells (MW-H and MW-I), one background monitoring well (MW-J), and two surface water sampling locations (SW-1 and SW-2) located along the North Toe River. State and federal regulations applicable to landfills are enforced by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM). The inactive C&D Landfill is permitted by the DENR DWM under Permit No. 100-02, which requires semiannual monitoring of groundwater and surface water quality.

This report documents the second semiannual groundwater and surface water monitoring event for 2011, and is being submitted in accordance with requirements stipulated in the DENR Solid Waste Management Rules Title 15A, Subchapter 13B, Section .0500, of the North Carolina Administrative Code (15A NCAC 13B .0500). This report provides an evaluation of surface water and groundwater quality for the C&D Landfill.

This report contains the following items:

- Maps showing site features and the groundwater and surface water sampling locations
- Groundwater level measurements and generalized groundwater flow direction maps
- Groundwater and surface water quality analytical results and measured field parameters
- Sampling logs
- Laboratory analytical reports and chain-of-custody forms

2.0 Methods

2.1 Groundwater and Surface Water Sampling

The water quality monitoring network for the C&D Landfill consists of two compliance monitoring wells (MW-H and MW-I), one upgradient, background monitoring well (MW-J), and two surface water sampling locations (SW-1 and SW-2). Surface water sampling locations are located along the North Toe River. The groundwater and surface water samples were collected by Altamont Environmental, Inc. (Altamont) on September 13 and 14, 2011. The sampling locations are shown on Figures 1 and 2.

Table 1 includes a monitoring well construction summary. Table 2 provides a list of all groundwater and surface water samples that were collected and the analyses performed on each sample.

2.1.1 Groundwater Purging and Sampling Methods

Prior to purging the monitoring wells, the static water level was gauged. During the purging process, field parameters, consisting of pH, specific conductivity (SC), dissolved oxygen (DO), turbidity, oxidation reduction potential (ORP), and temperature, were measured. Static water level measurements and field parameter data are included in Table 3.

Altamont personnel used either: a disposable bailer, a bladder pump, or Proactive® Monsoon® pump at each monitoring well to purge the well and collect a groundwater sample. Total well depth, condition of the casing, and the groundwater recharge rate determined the purging and sample collection method used at each monitoring well. Well sampling logs are included in Appendix A.

Monitoring Well MW-H

On September 13, 2011, a new disposable bailer was used to purge monitoring well MW-H. The total depth of this monitoring well is 64.30 feet below ground surface (bgs) and is constructed in saprolite (Table 1). The well recharges very slowly. Altamont technicians purged the monitoring well until it was dry, and allowed the water level to recharge overnight. The groundwater samples were collected the following day on September 14, 2011, using the same disposable bailer. Prior to collecting the groundwater samples, Altamont technicians recorded the field parameters of the groundwater collected from the well. Subsequently, groundwater samples were placed into laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

Monitoring Well MW-I

Monitoring well MW-I was sampled on September 13, 2011. The total depth of this well is 82.25 feet bgs and it is constructed in saprolite. A bladder pump and low-flow techniques were used to purge and sample compliance monitoring well MW-I. The monitoring well was purged using low-flow techniques in general accordance with the procedures described in *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (Puls and Barcelona 1996). During purging, the field parameters were measured and recorded approximately every three minutes. Well purging continued until these parameters stabilized for three consecutive readings. The general required stabilization criteria were as follows:

- pH values within +/- 0.1 unit
- Specific conductivity values within +/- 3 percent
- Temperature, dissolved oxygen, and turbidity values within +/- 10 percent
- ORP values within +/- 10 millivolts

Once the parameters had stabilized, groundwater samples were collected and placed into laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

Monitoring Well MW-J

Monitoring well MW-J, which has a total depth of 194.5 feet bgs (Table 1), is located on a ridge in the southwestern area of the C&D Landfill. It is screened in bedrock and serves as a background well for the water quality monitoring network. A bladder pump could not be used to purge and/or sample this well due to its depth and the pressure needed to operate the bladder at this depth. Instead, Altamont personnel used a Proactive® Monsoon® pump, and low-flow sampling techniques, to purge and sample monitoring well MW-J on September 13, 2011. During purging, the field parameters were measured and recorded approximately every three minutes. Well purging continued until these parameters stabilized for three consecutive readings. The general required stabilization criteria were as follows:

- pH +/- 0.1 unit
- Specific conductivity +/- 3 percent
- Temperature +/- 10 percent
- Dissolved oxygen +/- 10 percent
- Turbidity +/- 10 percent
- Oxidation-reduction potential (ORP) +/- 10 millivolts

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

2.1.2 Surface Water Sampling Methods

Surface water samples SW-1 and SW-2 were collected on September 13, 2011 at designated locations from the North Toe River, which is located east of the MSW Landfill. The SW-1 sample represents surface water quality upstream of the facility, while SW-2 sample represents surface water quality downstream from the facility. One round of field parameters consisting of temperature, pH, specific conductivity, dissolved oxygen, ORP, and turbidity, was measured and recorded at each surface water sampling location prior to collecting the surface water sample (Table 3). Each sample was placed into laboratory-supplied sample containers by a technician wearing a new pair of nitrile gloves.

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to the C&D Landfill sampling locations are provided on sampling logs, which are included as Appendix A. Following collection, each groundwater and surface water sample was immediately placed on ice in a sample cooler for shipment to Pace Analytical Services (Pace), a North Carolina certified laboratory located in Asheville, North Carolina. As noted in Table 2, each sample was analyzed for the following:

- Appendix I volatile organic compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Tetrahydrofuran (added to VOCs analysis) using EPA Method 8260
- Appendix I metals using EPA Methods 6010 and 7470
- Alkalinity using Standard Method (SM) 2320B
- Chloride using method EPA 300
- Sulfate using method EPA 300
- Total dissolved solids using method SM19 2540C

Proper chain-of-custody documentation practices were followed during collection and transportation of each sample; the documentation is included in Appendix B of this report. For each of the two sampling dates, September 13 and 14, 2011, a trip blank provided by the laboratory was placed in the sample cooler and analyzed for Appendix I volatile organic compounds (VOCs). The laboratory analytical reports are also provided in Appendix B.

3.0 Findings

3.1 Analytical Results

The laboratory analytical results and field parameters for the groundwater and surface water samples collected at the landfill are listed in Table 3, in the Electronic Data Deliverable (EDD) format specified by the Solid Waste Section of the DWM in a memorandum dated October 27, 2006. The laboratory analytical reports issued by Pace are included in Appendix B.

As stipulated in the October 27, 2006 memorandum referenced above, non-detections were reported at the method detection limit (MDL), and all concentrations exceeding the MDL were reported and appropriately qualified (Tables 3 through 5). The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99 percent confidence that the analyte concentration is greater than zero. All detections were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the NC Solid Waste Section. The SWSL is the lowest concentration of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is above the laboratory MDL and below the method reporting limit (MRL), the analytical result is qualified by the laboratory as estimated, and is flagged with a "J" qualifier (J-flag). If the reported concentration is greater than the laboratory MDL and less than the SWSL, the analytical result is qualified by Altamont as estimated, and is flagged with a "*J*" qualifier (italicized *J*-flag). Concentrations below respective SWSLs are not discussed in the text of this report unless they exceed their contaminant-specific 2L or 2B water quality standard.

Detected concentrations of analytes in groundwater samples were compared to the current groundwater quality standards specified in 15A NCAC 2L.0202, which are referred to as 2L Standards. Detected concentrations of analytes in groundwater with no established 2L Standard were compared to an updated and current list of the interim maximum allowable concentrations (IMACs) for Class GA and GSA groundwater (in accordance with 15A NCAC 02L .0202 [c]). Detections of analytes in surface-water samples were compared to the 15A NCAC 2B.0211 surface-water quality standards (2B Standards).

Table 3 presents the following information:

- The laboratory analytical results for the samples collected from the monitoring wells, the samples collected from the surface water sampling locations, and the trip blank(s)
- Field groundwater and surface water parameters measured prior to the collection of groundwater and surface water samples

Table 4 presents analytical results that were above the applicable SWSLs. Table 5 presents the concentrations detected in the groundwater and/or surface water samples that exceeded the respective 2L Standards, IMACs, or 2B Standards. In the tables, the identification of a well ("WELL ID") consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well MW-H is identified on the tables as 10002-MWH. In the figures, however, the identification of a well consists of the name of the well without the permit number for the facility.

3.1.1 Groundwater Samples

The following statements summarize detections of Appendix I VOCs, Appendix I metals, and inorganics in groundwater. 2L Standard exceedances are shown in Table 5.

3.1.1.1 VOCs

One VOC, trichlorofluoromethane, was detected at a concentration of 1.6 micrograms per liter (µg/L) in monitoring well MW-I, that exceeded its established SWSL (1 µg/L), but was below the 2L standard. No

other VOCs were detected in any of the groundwater samples collected from monitoring wells at concentrations above either the SWSLs (Table 4) or the associated 2L Standards (Table 5).

Tetrahydrofuran analysis was performed on groundwater samples during this sampling event per the DENR SWS requirement in accordance with 15A NCAC 13B .0601 described in the June 25, 2010 memorandum. Tetrahydrofuran was detected in the groundwater sample collected from monitoring well MW-H at a concentration of 27.4 µg/L. Tetrahydrofuran was detected in the groundwater sample collected from monitoring well MW-I at a concentration of 10 J µg/L. Neither a SWSL nor a 2L Standard are established for tetrahydrofuran. There was no tetrahydrofuran present in the groundwater sample collected from the background monitoring well.

3.1.1.2 Metals

The detected concentrations of two metals (iron and manganese) exceeded their respective SWSLs and their respective 2L Standards in the groundwater samples collected from monitoring wells (Tables 4 and 5, Figure 2), as follows:

- The iron concentration (3,250 µg/L) detected in the groundwater sample collected from MW-H exceeded both iron's SWSL and its 2L Standard, which are established at 300 µg/L.
- Manganese concentrations (407 µg/L and 53.1 µg/L respectively) detected in the groundwater samples collected from monitoring wells MW-H and MW-I exceeded both manganese's SWSL and its 2L Standard, which are both established at 50 µg/L.

The detected concentrations of four metals (barium, copper, mercury, and zinc) exceeded only their respective SWSLs in the groundwater samples collected from either of the monitoring wells MW-H, MW-I, or MW-J (see Table 4). The detected concentrations in groundwater were as follows:

- The concentration of barium (105 µg/L) detected in the groundwater sample collected from monitoring well MW-H exceeded barium's SWSL of 100 µg/L.
- The concentration of mercury (0.69 µg/L) detected in the groundwater sample collected from monitoring well MW-H exceeded mercury's SWSL of 0.2 µg/L.
- The concentration of copper (12.8 µg/L) detected in the groundwater sample collected from background monitoring well MW-J exceeded copper's SWSL of 10 µg/L.
- The concentrations of zinc (14.1 µg/L, 11.7 µg/L, and 19.5 µg/L respectively) detected in the groundwater samples collected from monitoring wells MW-H, MW-I, and background well MW-J exceeded its SWSL of 10 µg/L.

The detected concentration of one additional metal (vanadium) exceeded its respective IMAC standard, but not the respective SWSL. The concentration of vanadium detected in the groundwater sample collected from MW-H (5.4 J µg/L) exceeded vanadium's IMAC standard of 0.3 µg/L (Tables 4 and 5, Figure 2).

3.1.1.3 Additional Water Quality Parameters

At least one of the additional water quality parameters (alkalinity, chloride, sulfate, and total dissolved solids [TDS]) was detected in the groundwater samples collected from the monitoring wells. The detections are summarized in Table 3. SWSLs are not established for analyzed inorganics with the exception of sulfate. The detected concentration of sulfate was below its SWSL.

Chloride, sulfate, and total dissolved solids have established 2L Standards, however none of the detected concentrations of these compounds exceeded their associated 2L Standards in groundwater.

3.1.1.4 Field Parameters

The pH readings were obtained on September 13 and 14, 2011 from groundwater samples collected from monitoring wells. The pH readings measured in the two, non-background wells (MW-H at 5.74 Standard Units [SU] and MW-I at 5.80 SU) were outside the 2L Standard pH range of 6.5 to 8.5 SU (Table 5). Although the results were below the accepted range for the 2L Standard, they appear to be consistent with historic pH readings and naturally occurring ranges of pH in groundwater for this region.

SWSLs and 2L Standards are not established for the remaining field parameters collected during the fall 2011 sampling event.

3.1.2 Surface Water Samples

The following statements summarize detections of Appendix I VOCs, Appendix I metals, and inorganics in surface water. 2B Standard exceedances are shown in Table 5.

3.1.2.1 VOCs

VOCs were not detected in surface water samples collected from surface water sampling locations SW-1 or SW-2.

3.1.2.2 Metals

None of the metals found in the collected surface water samples were detected above the respective SWSLs or 2B Standards. Metals were not detected above their respective SWSLs or 2B Standards in samples collected from the surface water sampling locations SW-1 and SW-2.

3.1.2.3 Additional Water Quality Parameters

Additional water quality parameters and constituents (alkalinity, chloride, sulfate, and total dissolved solids) were measured and detected in the surface water samples collected from surface water sampling locations SW-1 and SW-2 locations (Table 3). SWSLs are not established for inorganics with the exception of sulfate. The detected concentration of sulfate was below its SWSL.

Only chloride has established 2B Standard for surface water, however detected concentrations of chloride in surface water samples were found to be below this standard.

3.1.2.4 Field Parameters

The pH readings were obtained on September 13, 2011 for surface water samples. The pH readings measured in both samples were within the 2B Standard range established at 6.0 SU to 9.0 SU.

Turbidity was measured at 0.00 NTU in both surface water samples and the 2B standard for turbidity is established at 50/25 NTU.

Dissolved oxygen was measured at 7.85 mg/L in SW-1 and at 6.24 mg/L in SW-2, which are above the established 2B Standard of 5.0 mg/L (the 2B Standard indicates “not less than 5.0 mg/L”).

2B Standards do not exist for the remaining field parameters measured in surface water samples.

3.2 Hydrogeology

Groundwater elevations were calculated for the September 2011 semiannual water quality monitoring event using the measured depths to water and the associated top-of-casing elevations from the survey conducted on the monitoring wells in October 2009. Groundwater elevation data are reported in Table 1. Figure 3

presents the generalized groundwater flow direction for groundwater found in the water table aquifer and the bedrock aquifer. These groundwater flow directions were estimated by plotting potentiometric surfaces of groundwater found in the water table and bedrock aquifers. Generalized groundwater flow directions were estimated using groundwater elevation data associated with a limited number of data points in an area of complex topographic and geologic conditions. The estimated groundwater flow directions indicate that groundwater in the bedrock aquifer is flowing generally in a northeasterly direction. Groundwater in the water table aquifer appears to be generally mimicking topography in the areas where data is available. Groundwater flow appears to be convergent toward a topographic trough in a northerly direction in the water table aquifer. Apparent groundwater flow directions and the local topography suggest that groundwater is flowing toward the North Toe River.

4.0 Summary

4.1 Groundwater

Altamont completed the second semiannual water quality monitoring event of 2011 at the Yancey-Mitchell County C&D Landfill on September 13 and 14, 2011. The region has been experiencing greater rainfall in 2010 and 2011 than in previous years. As a result, Altamont has been able to collect a groundwater sample from MW-I, a monitoring well that has historically been dry.

One VOC, trichlorofluoromethane, was detected in the groundwater sample collected from monitoring well MW-I at a concentration that exceeded its associated SWSL, but was below the 2L standard.

Tetrahydrofuran was detected in the groundwater samples collected from MW-H and MW-I. There was no tetrahydrofuran present in the sample collected from the background monitoring well. Neither an SWSL nor 2L standard are established for tetrahydrofuran.

Two metals (iron and manganese) were detected at concentrations exceeding both their respective SWSLs and their respective 2L Standards. Four metals (barium, copper, mercury, and zinc) were detected at concentrations that exceed the SWSLs but not the 2L Standards. One additional metal (vanadium) was detected at a concentration exceeding its IMAC but not its SWSL.

The measured turbidities in the September 2011 groundwater samples were within an acceptable range (0.00 to 0.63 nephelometric turbidity units [NTUs]). Therefore, it is assumed that metal detections in groundwater appear to be representative of groundwater quality in the vicinity of the monitoring wells.

Iron and manganese naturally occur in the groundwater of Western North Carolina. The concentrations observed in the groundwater samples collected from the monitoring well network during the September 2011 sampling event at the Yancey-Mitchell County C&D Landfill are consistent with the concentrations present in soils and surficial materials of the region (Gustavsson, et al. 2001).

Analysis results of additional water quality parameters (alkalinity, chloride, sulfate, and total dissolved solids) reveal that none were present at concentrations that exceeded either the respective SWSLs and/or 2L Standards where applicable.

Although, the pH results measured in wells MW-H and MW-I were below the 2L Standard pH range, they appear to be consistent with historic pH readings and with pH measurements that could be reasonably expected in the groundwater of Western North Carolina.

4.2 Surface Water

VOCs were not detected in the surface water samples collected from the North Toe River during this monitoring event.

Metals were not detected above their respective SWSL or 2B Standard in samples collected from surface water sampling location SW-1 or SW-2.

Additional water quality parameters and constituents (alkalinity, chloride, sulfate, and total dissolved solids) were measured and detected in the surface water samples collected from surface water sampling locations SW-1 and SW-2 locations (Table 3). SWSLs are not established for inorganics with the exception of sulfate. The detected concentration of sulfate was below its SWSL.

Only chloride has established 2B Standard for surface water, however detected concentrations of chloride in surface water samples were found to be below this standard.

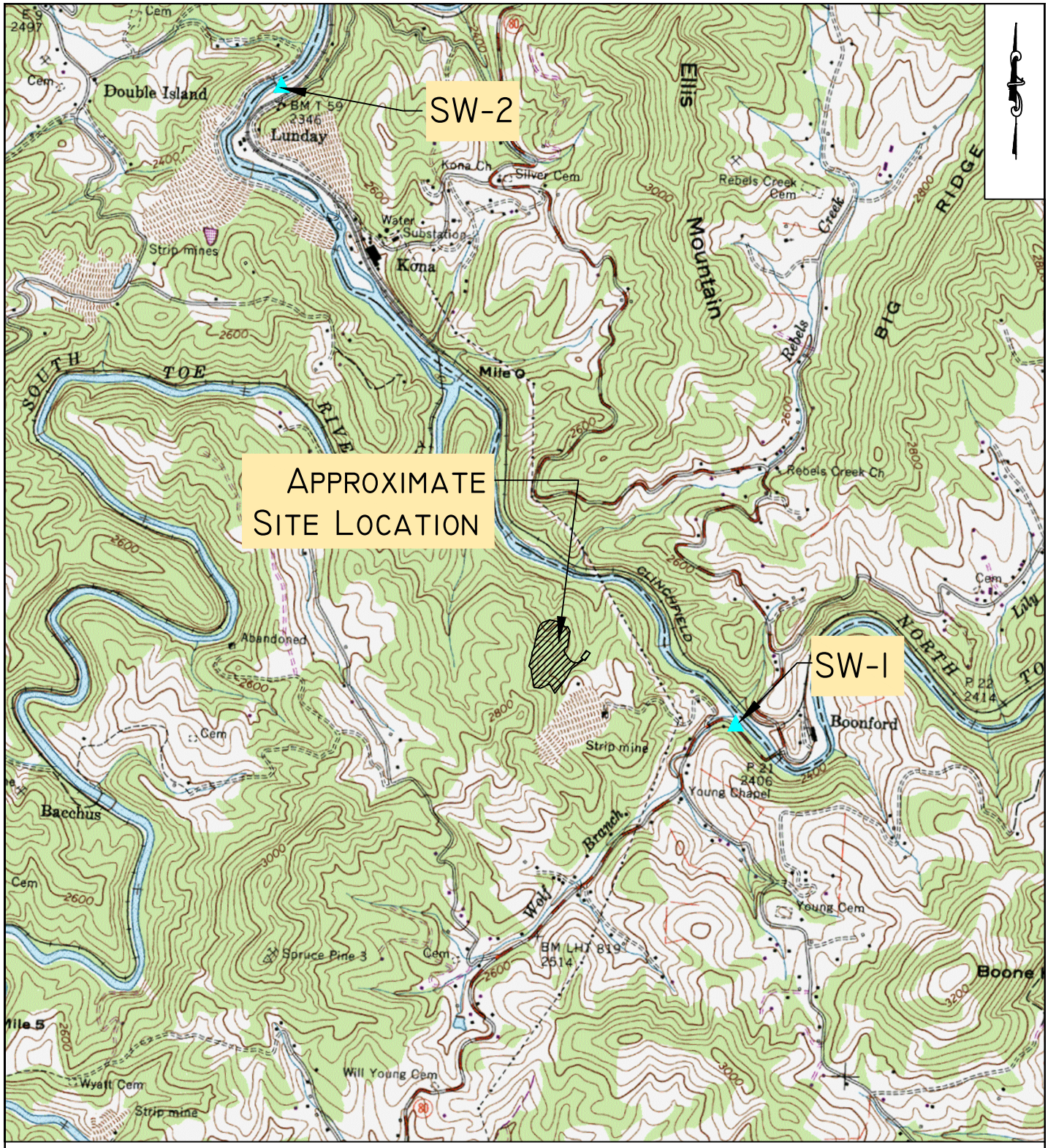
4.3 Future Activities

Altamont will continue to measure field parameters and monitor Appendix I VOCs, Appendix I metals, tetrahydrofuran, and inorganic water quality parameters in the groundwater and surface water monitoring network on a semiannual basis at the Yancey-Mitchell C&D Landfill. The next sampling event is scheduled for March 2012.

5.0 References

Gustavsson, N., Bolviken, D.B., Smith, D.B., and R.C. Severson. 2001. *Geochemical Landscapes of the Conterminous United States—New Map Presentations for 22 Elements*. U. S. Geological Survey Professional Paper 1648.

FIGURES



NOTES:
SW-1 AND SW-2 ARE APPROXIMATE LOCATIONS OF SURFACE WATER SAMPLING POINTS.
MAP SOURCE: USGS MICAVILLE QUAD. CREATED 1960. REVISED 1978.

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DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: YANCEY COUNTY
DATE: 11/02/2011

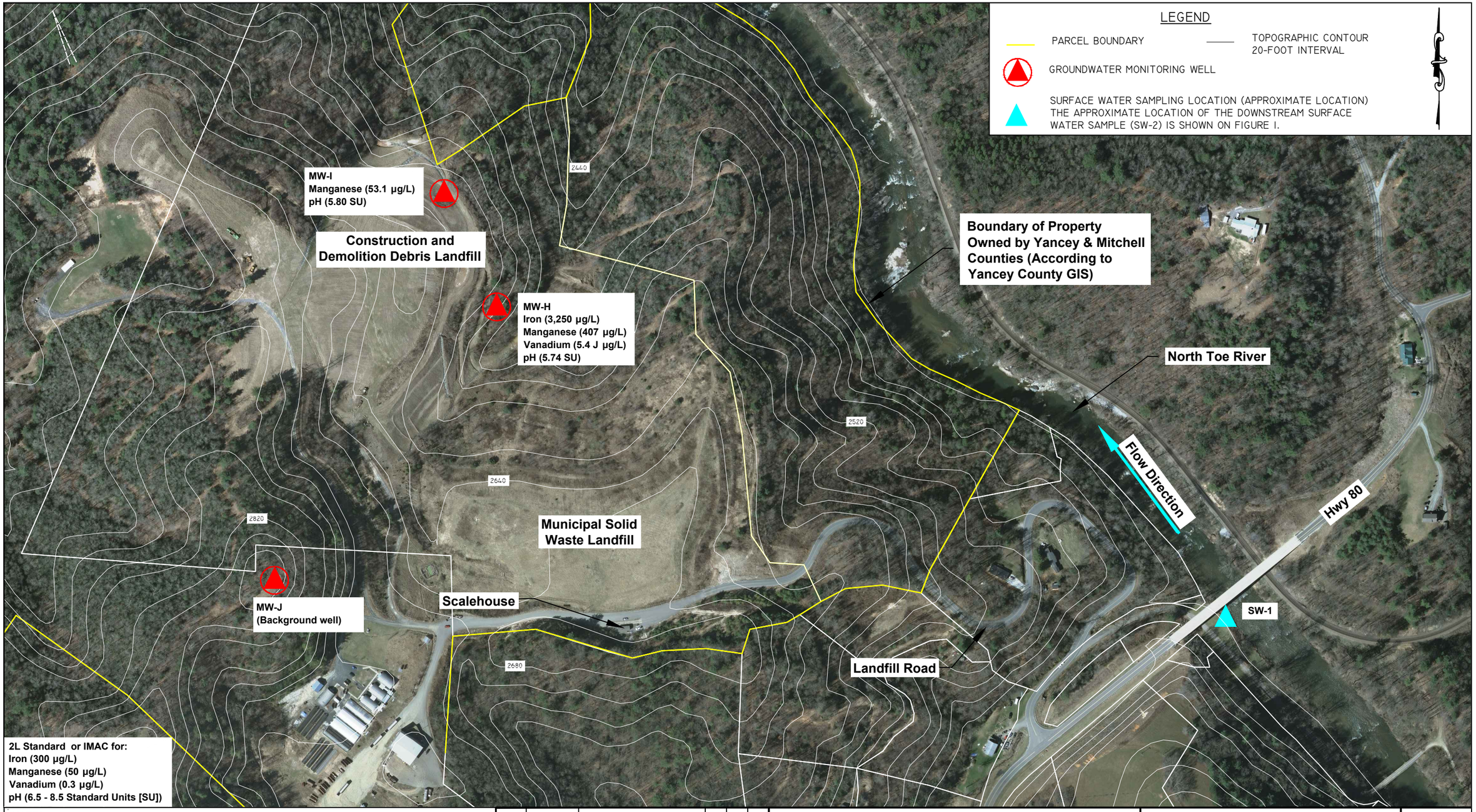
SCALE (FEET)
1,000 0 1,000 2,000
1 INCH = 2,000 FEET

SITE LOCATION MAP

YANCEY-MITCHELL COUNTY INACTIVE
C & D LANDFILL - PERMIT # 100-02
YANCEY COUNTY, NORTH CAROLINA

FIGURE
1

FILE PATH: P:\YANCEY COUNTY\SOLID WASTE\FIGURES\2011\FALL\ FIGURE 1-SITE LOCATION MAP_C&D AND MSW.DWG



NOTES:
1. POSTED DATA ARE CONSTITUENTS DETECTED AT CONCENTRATIONS ABOVE THEIR RESPECTIVE GROUNDWATER QUALITY STANDARD [2L STANDARD OR INTERIM CONCENTRATION (IMAC)].
2. SAMPLE DATE(S): 09/13/2011 AND 09/14/2011.

MAP SOURCES:
AERIAL IMAGERY OBTAINED FROM NC ONE MAP WEBSITE (DATED 2010)
TOPOGRAPHIC CONTOURS - YANCEY COUNTY 2007 LIDAR
PARCELS - YANCEY COUNTY 2007 GIS
SURFACE WATER SAMPLE LOCATION - GPS FIELD DATA
MONITORING WELL LOCATIONS - SURVEY DATA FROM WEBB A. MORGAN & ASSOCIATES, P.A. (2009)

REV.	DATE	DESCRIPTION	BY	CHK	APV
6	12/12/2011	UPDATE EXCEEDANCE VALUES AND IMAGERY	MAV	EY	JDL
5	05/17/2011	UPDATE EXCEEDANCE VALUES	MAV	AB	JDL
4	10/29/2010	UPDATE EXCEEDANCE VALUES	MAV	EY	JDL
3	05/06/2010	UPDATE EXCEEDANCE VALUES	MAV	MB	JDL
2	11/06/2009	UPDATE EXCEEDANCE VALUES	MAV	MB	JDL
1	06/05/2009	UPDATE LOGO AND EXCEEDANCE VALUES	KRM	MB	JDL

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DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: YANCEY COUNTY
DATE: 12/13/2011

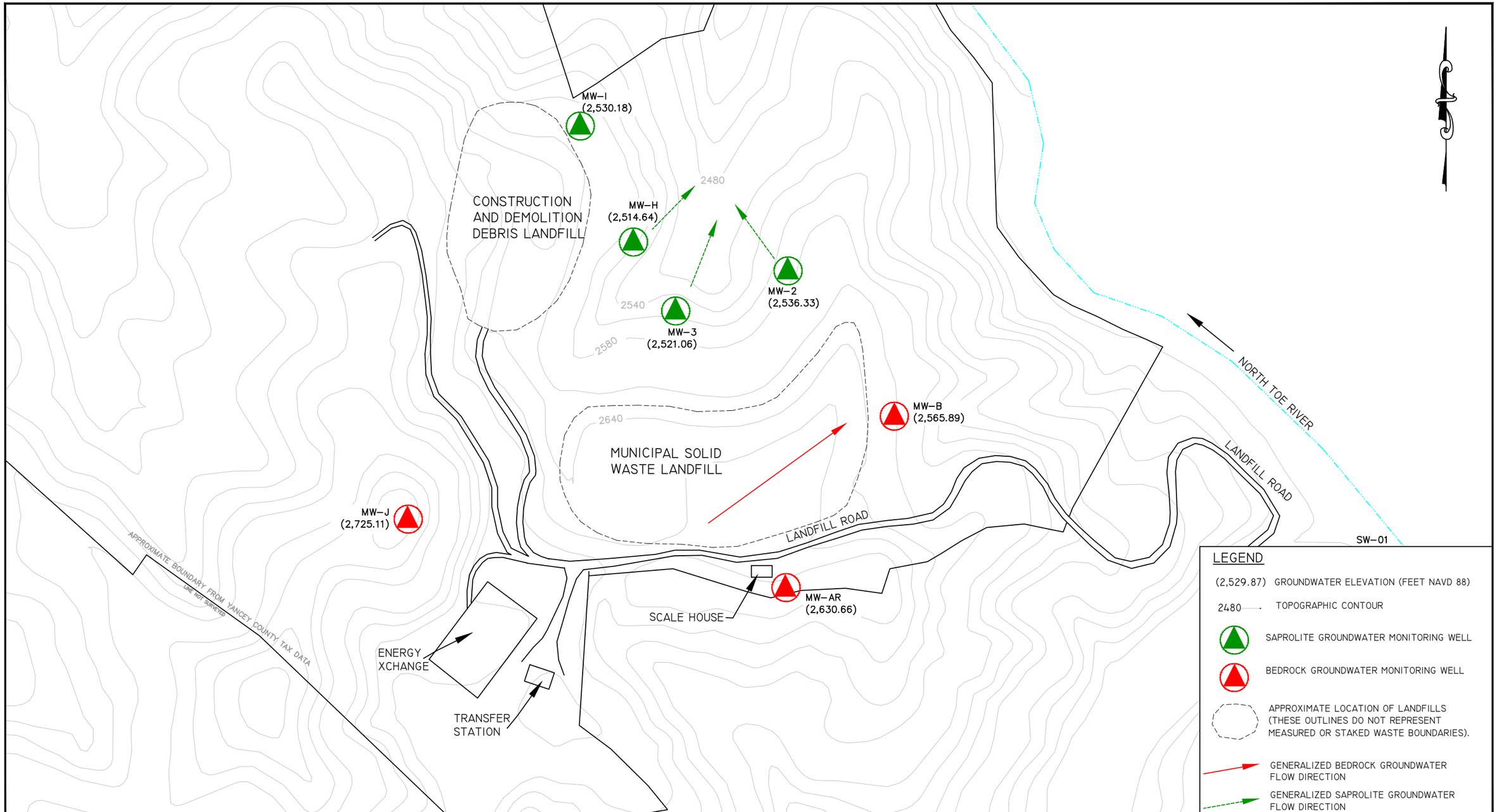
SCALE (FEET)
150 0 150 300

SAMPLE LOCATION AND POSTED DATA MAP

YANCEY-MITCHELL COUNTY INACTIVE C & D LANDFILL - PERMIT # 100-02
YANCEY COUNTY, NORTH CAROLINA

FIGURE 2

FILE PATH: P:\YANCEY COUNTY\SOLID WASTE\FIGURES\2011\FALL\FIGURE 2 SAMPLE LOCATION AND DATA MAP.DWG



NOTES:
GROUNDWATER ELEVATIONS BASED ON DEPTH TO WATER MEASURED ON SEPTEMBER 13 AND 14, 2011.

MAP SOURCES:
MONITORING WELL LOCATIONS - SURVEY DATA FROM WEBB A. MORGAN & ASSOCIATES, P.A., OCTOBER 2009

REV.	DATE	DESCRIPTION	BY	CHK	APV

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PROJECT MANAGER: CHRIS GILBERT
CLIENT: YANCEY CUNTY
DATE: 12/13/2011

SCALE (FEET)
150 0 150 300

GENERALIZED GROUNDWATER FLOW DIRECTION MAP

YANCEY-MITCHELL COUNTY CLOSED MSW AND INACTIVE C&D LANDFILLS
YANCEY COUNTY, NORTH CAROLINA

FIGURE
3

FILE PATH: P:\YANCEY COUNTY\SOLID WASTE\FIGURES\2011\FALL\FIGURE 3-GW FLOW DIRECTION MAP.PDF

TABLES

Table 1
Monitoring Well Construction Summary
Yancey-Mitchell County Inactive Construction & Demolition Debris Landfill, Yancey County, North Carolina

Facility Permit	Well ID	Date Drilled	Northing (NAD 83; 2007)	Easting (NAD 83; 2007)	Ground Surface Elevation (feet NAVD 88)	TOC Elevation (feet NAVD 88)	Stick Up (feet above ground surface)	Total Well Depth (feet bgs)	Depth To Water (feet below TOC)	Groundwater Elevation (feet NAVD 88)	Approximate Depth to Bedrock (feet bgs)	Approximate Bedrock Elevation (feet NAVD 88)	Depth to Top of Screened Interval (feet bgs)	Depth to Bottom of Screened Interval (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Elevation of Bottom of Screen (feet NAVD 88)	Geology of Screened Interval	Source of Well Construction Information
C&D Landfill Monitoring Wells																		
100-02	MW-H	12/4/1996	809563.75	1058698.38	2,566.36	2,568.68	2.3	64.30	54.04	2,514.64	62	2,504	47.0	62.0	2,519.4	2,504.4	Saprolite	DENR Well Construction/Drilling Log Record, dated 12/31/96
100-02	MW-I	12/2/1996	809923.04	1058531.91	2,596.57	2,598.77	2.0	82.25	68.59	2,530.18	>85	<2,512	64.0	79.0	2,532.6	2,517.6	Saprolite	DENR Well Construction/Drilling Log Record, dated 12/31/96
100-02	MW-J	11/26/1996	808698.05	1057994.86	2,873.58	2,875.99	2.3	194.50	150.88	2,725.11	2	2,872	179.5	194.5	2,694.1	2,679.1	Bedrock	DENR Well Construction/Drilling Log Record, dated 12/31/96
MSW Landfill Monitoring Wells																		
100-01	MW-2	No Well Record	809474.01	1059181.42	2,568.85	2,572.06	3.2	56.2	35.73	2,536.33	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	Assumed Saprolite	No Well Construction/ Drilling Record is Available
100-01	MW-3	No Well Record	809357.74	1058830.13	2,551.34	2,553.57	1.7	38.0	32.51	2,521.06	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	Assumed Saprolite	No Well Construction/ Drilling Record is Available
100-01	MW-AR	No Well Record	808483.97	1059176.2	2,688.76	2,691.17	2.3	71.4	60.51	2,630.66	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	No Well Record	Assumed Bedrock	No Well Construction/ Drilling Record is Available
100-01	MW-B	12/02/1996	809020.07	1059514.58	2,624.07	2,626.27	2.0	68.0	60.38	2,565.89	18	2,606	53.0	68.0	2,571.1	2,556.1	Bedrock	DENR Well Construction/ Drilling Log Record, dated 12/31/96

Notes:
1. TOC = Top of Casing.
2. Depth to water measured on September 13 and 14, 2011.
3. bgs = below ground surface.
4. NAD = North American Datum 1983.
5. NAVD = North American Vertical Datum 1988.

Table 2
Summary of Laboratory Analyses Performed on Samples
Yancey-Mitchell County Inactive Construction & Demolition Debris Landfill, Yancey County, North Carolina

SUMMARY OF LABORATORY ANALYSES–GROUNDWATER SAMPLES									
WELL ID	COLLECT DATE	VOCs	METALS			SULFATE	CHLORIDE	TDS	ALKALINITY
		APPENDIX I	APPENDIX I	Hg	Mn, Fe				
		EPA 8260	EPA 6010	EPA 7470	EPA 6010	EPA 300	EPA 300	SM19 2540C	SM 2320B
10002-MWH	09/14/2011	X	X	X	X	X	X	X	X
10002-MWI	09/13/2011	X	X	X	X	X	X	X	X
10002-MWJ	09/13/2011	X	X	X	X	X	X	X	X
SUMMARY OF LABORATORY ANALYSES–SURFACE WATER SAMPLES									
SAMPLE NAME	COLLECT DATE	VOCs	METALS			SULFATE	CHLORIDE	TDS	ALKALINITY
		APPENDIX I	APPENDIX I	Hg	Mn, Fe				
		EPA 8260	EPA 6010	EPA 7470	EPA 6010	EPA 300	EPA 300	SM19 2540C	SM 2320B
10002-SW1	09/13/2011	X	X	X	X	X	X	X	X
10002-SW2	09/13/2011	X	X	X	X	X	X	X	X
SUMMARY OF LABORATORY ANALYSES–QUALITY CONTROL SAMPLES									
SAMPLE NAME	COLLECT DATE	VOCs	METALS			SULFATE	CHLORIDE	TDS	ALKALINITY
		APPENDIX I	APPENDIX I	Hg	Mn, Fe				
		EPA 8260	EPA 6010	EPA 7470	EPA 6010	EPA 300	EPA 300	SM19 2540C	SM 2320B
10002-TRIPBLANK	09/13/2011	X							

Notes:
VOCs = volatile organic compounds.
Hg = mercury.
Mn = manganese.
Fe = iron.
TDS = total dissolved solids.
Tetrahydrofuran analysis has been performed since the spring 2011 sampling event per the North Carolina Division of Waste Management, Solid Waste Section requirement specified in the June 25, 2010 memorandum.

Table 3

Analytical Data and Field Parameters—September 2011

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWH	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/22/2011	40
100-02	10002-MWH	7440-39-3	15	Barium	105	ug/L		EPA 6010	5.0	5.0	100	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-47-3	51	Chromium	9.4	ug/L	*J*	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-50-8	54	Copper	6.2	ug/L	*J*	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-89-6	340	Iron	**3,250**	ug/L		EPA 6010	50.0	50.0	300	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-96-5	342	Manganese	**407**	ug/L		EPA 6010	5.0	5.0	50	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-97-6	132	Mercury	0.69	ug/L		EPA 7470	0.10	0.20	0.2	1	09/14/2011	09/19/2011	09/26/2011	40
100-02	10002-MWH	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-62-2	209	Vanadium	**5.4**	ug/L	***J***	EPA 6010	5.0	5.0	25	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7440-66-6	213	Zinc	14.1	ug/L		EPA 6010	10.0	10.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	67-64-1	3	Acetone	3.7	ug/L	J	EPA 8260	2.2	25.0	100	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/14/2011		09/16/2011	12

Table 3

Analytical Data and Field Parameters—September 2011

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWH	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	109-99-9	458	Tetrahydrofuran	27.4	ug/L		EPA 8260	3.1	10.0	NE	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	J	EPA 8260	0.20	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/14/2011		09/16/2011	12
100-02	10002-MWH	SW337	337	Alkalinity, Total as CaCO3	39,600	ug/L		SM 2320B	5,000	5,000	NE	1	09/14/2011	09/22/2011	09/22/2011	40
100-02	10002-MWH	SW301	301	Chloride	13,800	ug/L		SM 4500-Cl-E	5,000	5,000	NE	1	09/14/2011	09/25/2011	09/25/2011	40
100-02	10002-MWH	14808-79-8	315	Sulfate	37,500	ug/L	J	EPA 300.0	5,000	5,000	250,000	1	09/14/2011	09/23/2011	09/23/2011	40
100-02	10002-MWH	SW311	311	Total Dissolved Solids	157,000	ug/L		SM 2540C	25,000	25,000	NE	1	09/14/2011	09/15/2011	09/15/2011	40
100-02	10002-MWH	7782-44-7	356	Dissolved Oxygen	6.24	mg/L					NE		09/14/2011			
100-02	10002-MWH	SW336	336	Oxygen Reduction Potential	-123.4	mV					NE		09/14/2011			
100-02	10002-MWH	SW320	320	pH	5.74	SU					NE		09/14/2011			
100-02	10002-MWH	SW323	323	Specific Conductivity	260	uS/cm					NE		09/14/2011			
100-02	10002-MWH	SW325	325	Temperature	13.41	°C					NE		09/14/2011			
100-02	10002-MWH	SW330	330	Turbidity	0.63	NTU					NE		09/14/2011			
100-02	10002-MWH	SW318	318	Depth to Water	54.04	ft TOC							09/14/2011			
100-02	10002-MWH	SW411	411	Total Well Depth	64.30	ft bgs							09/14/2011			
100-02	10002-MWH	SW328	328	Top of Casing (TOC) Elevation	2,568.68	ft NAVD 88							10/21/2009			
100-02	10002-MWI	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/22/2011	40
100-02	10002-MWI	7440-39-3	15	Barium	51.2	ug/L	J	EPA 6010	5.0	5.0	100	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40

Table 3

Analytical Data and Field Parameters—September 2011

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWI	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7439-89-6	340	Iron	128	ug/L	J	EPA 6010	50.0	50.0	300	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7439-96-5	342	Manganese	**53.1**	ug/L		EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	09/13/2011	09/19/2011	09/26/2011	40
100-02	10002-MWI	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-66-6	213	Zinc	11.7	ug/L		EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	67-64-1	3	Acetone	2.2	ug/L	U	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12

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Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWI	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	109-99-9	458	Tetrahydrofuran	10	ug/L	J	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-69-4	203	Trichlorofluoromethane	1.6	ug/L		EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWI	SW337	337	Alkalinity, Total as CaCO3	14,600	ug/L		SM 2320B	5,000	5,000	NE	1	09/13/2011	09/22/2011	09/22/2011	40
100-02	10002-MWI	SW301	301	Chloride	5,000	ug/L	U	SM 4500-Cl-E	5,000	5,000	NE	1	09/13/2011	09/25/2011	09/25/2011	40
100-02	10002-MWI	14808-79-8	315	Sulfate	5,000	ug/L	U	EPA 300.0	5,000	5,000	250,000	1	09/13/2011	09/23/2011	09/23/2011	40
100-02	10002-MWI	SW311	311	Total Dissolved Solids	55,000	ug/L		SM 2540C	25,000	25,000	NE	1	09/13/2011	09/15/2011	09/15/2011	40
100-02	10002-MWI	7782-44-7	356	Dissolved Oxygen	8.17	mg/L					NE		09/13/2011			
100-02	10002-MWI	SW336	336	Oxygen Reduction Potential	-181.6	mV					NE		09/13/2011			
100-02	10002-MWI	SW320	320	pH	5.80	SU					NE		09/13/2011			
100-02	10002-MWI	SW323	323	Specific Conductivity	63	uS/cm					NE		09/13/2011			
100-02	10002-MWI	SW325	325	Temperature	13.47	°C					NE		09/13/2011			
100-02	10002-MWI	SW330	330	Turbidity	0.51	NTU					NE		09/13/2011			
100-02	10002-MWI	SW318	318	Depth to Water	68.59	ft TOC							09/13/2011			
100-02	10002-MWI	SW411	411	Total Well Depth	82.25	ft bgs							09/13/2011			
100-02	10002-MWI	SW328	328	Top of Casing (TOC) Elevation	2,598.77	ft NAVD 88							10/21/2009			
100-02	10002-MWJ	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-38-2	14	Arsenic	5.9	ug/L	J	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/22/2011	40
100-02	10002-MWJ	7440-39-3	15	Barium	13.9	ug/L	J	EPA 6010	5.0	5.0	100	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-47-3	51	Chromium	5.3	ug/L	J	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-50-8	54	Copper	12.8	ug/L		EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7439-89-6	340	Iron	138	ug/L	J	EPA 6010	50.0	50.0	300	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7439-96-5	342	Manganese	5.6	ug/L	J	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	09/13/2011	09/19/2011	09/26/2011	40
100-02	10002-MWJ	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40

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100-02	10002-MWJ	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-66-6	213	Zinc	19.5	ug/L		EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	67-64-1	3	Acetone	4.7	ug/L	J	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12

Table 3

Analytical Data and Field Parameters—September 2011

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWJ	109-99-9	458	Tetrahydrofuran	3.1	ug/L	U	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	SW337	337	Alkalinity, Total as CaCO3	54,200	ug/L		SM 2320B	5,000	5,000	NE	1	09/13/2011	09/22/2011	09/22/2011	40
100-02	10002-MWJ	SW301	301	Chloride	5,000	ug/L	U	SM 4500-Cl-E	5,000	5,000	NE	1	09/13/2011	09/25/2011	09/25/2011	40
100-02	10002-MWJ	14808-79-8	315	Sulfate	14,400	ug/L	J	EPA 300.0	5,000	5,000	250,000	1	09/13/2011	09/26/2011	09/26/2011	40
100-02	10002-MWJ	SW311	311	Total Dissolved Solids	240,000	ug/L		SM 2540C	25,000	25,000	NE	1	09/13/2011	09/15/2011	09/15/2011	40
100-02	10002-MWJ	7782-44-7	356	Dissolved Oxygen	6.46	mg/L					NE		09/13/2011			
100-02	10002-MWJ	SW336	336	Oxygen Reduction Potential	-186.1	mV					NE		09/13/2011			
100-02	10002-MWJ	SW320	320	pH	7.38	SU					NE		09/13/2011			
100-02	10002-MWJ	SW323	323	Specific Conductivity	265	uS/cm					NE		09/13/2011			
100-02	10002-MWJ	SW325	325	Temperature	14.20	°C					NE		09/13/2011			
100-02	10002-MWJ	SW330	330	Turbidity	0.00	NTU					NE		09/13/2011			
100-02	10002-MWJ	SW318	318	Depth to Water	150.88	ft TOC							09/13/2011			
100-02	10002-MWJ	SW411	411	Total Well Depth	194.50	ft bgs							09/13/2011			
100-02	10002-MWJ	SW328	328	Top of Casing (TOC) Elevation	2,875.99	ft NAVD 88							10/21/2009			
100-02	10002-SW1	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/22/2011	40
100-02	10002-SW1	7440-39-3	15	Barium	22.6	ug/L	J	EPA 6010	5.0	5.0	100	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7439-89-6	340	Iron	284	ug/L	J	EPA 6010	50.0	50.0	300	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7439-96-5	342	Manganese	30.5	ug/L	J	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	09/13/2011	09/19/2011	09/26/2011	40
100-02	10002-SW1	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW1	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	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
100-02	10002-SW1	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	67-64-1	3	Acetone	4.0	ug/L	J	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	109-99-9	458	Tetrahydrofuran	3.1	ug/L	U	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	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
100-02	10002-SW1	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW1	SW337	337	Alkalinity, Total as CaCO3	19,800	ug/L		SM 2320B	5,000	5,000	NE	1	09/13/2011	09/22/2011	09/22/2011	40
100-02	10002-SW1	SW301	301	Chloride	10,300	ug/L		SM 4500-Cl-E	5,000	5,000	NE	1	09/13/2011	09/25/2011	09/25/2011	40
100-02	10002-SW1	14808-79-8	315	Sulfate	24,300	ug/L	J	EPA 300.0	5,000	5,000	250,000	1	09/13/2011	09/23/2011	09/23/2011	40
100-02	10002-SW1	SW311	311	Total Dissolved Solids	99,000	ug/L		SM 2540C	25,000	25,000	NE	1	09/13/2011	09/15/2011	09/15/2011	40
100-02	10002-SW1	7782-44-7	356	Dissolved Oxygen	7.85	mg/L					NE		09/13/2011			
100-02	10002-SW1	SW336	336	Oxygen Reduction Potential	-74.7	mV					NE		09/13/2011			
100-02	10002-SW1	SW320	320	pH	6.78	SU					NE		09/13/2011			
100-02	10002-SW1	SW323	323	Specific Conductivity	137	uS/cm					NE		09/13/2011			
100-02	10002-SW1	SW325	325	Temperature	20.22	°C					NE		09/13/2011			
100-02	10002-SW1	SW330	330	Turbidity	0.00	NTU					NE		09/13/2011			
100-02	10002-SW2	7440-36-0	13	Antimony	5.0	ug/L	U	EPA 6010	5.0	5.0	6	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-38-2	14	Arsenic	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/22/2011	40
100-02	10002-SW2	7440-39-3	15	Barium	17.2	ug/L	J	EPA 6010	5.0	5.0	100	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-41-7	23	Beryllium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-43-9	34	Cadmium	1.0	ug/L	U	EPA 6010	1.0	1.0	1	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-47-3	51	Chromium	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-48-4	53	Cobalt	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-50-8	54	Copper	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7439-89-6	340	Iron	190	ug/L	J	EPA 6010	50.0	50.0	300	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7439-92-1	131	Lead	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7439-96-5	342	Manganese	26.9	ug/L	J	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7439-97-6	132	Mercury	0.10	ug/L	U	EPA 7470	0.10	0.20	0.2	1	09/13/2011	09/19/2011	09/26/2011	40
100-02	10002-SW2	7440-02-0	152	Nickel	5.0	ug/L	U	EPA 6010	5.0	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7782-49-2	183	Selenium	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-22-4	184	Silver	5.0	ug/L	U	EPA 6010	5.0	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-28-0	194	Thallium	5.4	ug/L	U	EPA 6010	5.4	5.4	5.5	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-62-2	209	Vanadium	5.0	ug/L	U	EPA 6010	5.0	5.0	25	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	7440-66-6	213	Zinc	10.0	ug/L	U	EPA 6010	10.0	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-SW2	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12

Table 3

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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
100-02	10002-SW2	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	67-64-1	3	Acetone	5.2	ug/L	J	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	109-99-9	458	Tetrahydrofuran	3.1	ug/L	U	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-SW2	SW337	337	Alkalinity, Total as CaCO3	17,700	ug/L		SM 2320B	5,000	5,000	NE	1	09/13/2011	09/22/2011	09/22/2011	40
100-02	10002-SW2	SW301	301	Chloride	7,600	ug/L		SM 4500-Cl-E	5,000	5,000	NE	1	09/13/2011	09/25/2011	09/25/2011	40
100-02	10002-SW2	14808-79-8	315	Sulfate	13,400	ug/L	J	EPA 300.0	5,000	5,000	250,000	1	09/13/2011	09/23/2011	09/23/2011	40
100-02	10002-SW2	SW311	311	Total Dissolved Solids	68,000	ug/L		SM 2540C	25,000	25,000	NE	1	09/13/2011	09/15/2011	09/15/2011	40
100-02	10002-SW2	7782-44-7	356	Dissolved Oxygen	6.24	mg/L					NE		09/13/2011			
100-02	10002-SW2	SW336	336	Oxygen Reduction Potential	-66.7	mV					NE		09/13/2011			
100-02	10002-SW2	SW320	320	pH	6.93	SU					NE		09/13/2011			
100-02	10002-SW2	SW323	323	Specific Conductivity	98	uS/cm					NE		09/13/2011			

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100-02	10002-SW2	SW325	325	Temperature	21.03	°C					NE		09/13/2011			
100-02	10002-SW2	SW330	330	Turbidity	0.00	NTU					NE		09/13/2011			
100-02	10002-TRIPBLANK	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	67-64-1	3	Acetone	4.8	ug/L	J	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	109-99-9	458	Tetrahydrofuran	3.1	ug/L	U	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12

Table 3

Analytical Data and Field Parameters—September 2011

Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-TRIPBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	630-20-6	190	1,1,1,2-Tetrachloroethane	0.33	ug/L	U	EPA 8260	0.33	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	71-55-6	200	1,1,1-Trichloroethane	0.48	ug/L	U	EPA 8260	0.48	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-34-5	191	1,1,2,2-Tetrachloroethane	0.40	ug/L	U	EPA 8260	0.40	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-00-5	202	1,1,2-Trichloroethane	0.29	ug/L	U	EPA 8260	0.29	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	U	EPA 8260	0.32	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-35-4	77	1,1-Dichloroethene	0.56	ug/L	U	EPA 8260	0.56	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-18-4	206	1,2,3-Trichloropropane	0.41	ug/L	U	EPA 8260	0.41	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-12-8	67	1,2-Dibromo-3-chloropropane	2.5	ug/L	U	EPA 8260	2.5	5.0	13	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	106-93-4	68	1,2-Dibromoethane (EDB)	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	95-50-1	69	1,2-Dichlorobenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	107-06-2	76	1,2-Dichloroethane	0.12	ug/L	U	EPA 8260	0.12	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	78-87-5	82	1,2-Dichloropropane	0.27	ug/L	U	EPA 8260	0.27	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	106-46-7	71	1,4-Dichlorobenzene	0.33	ug/L	U	EPA 8260	0.33	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	78-93-3	141	2-Butanone (MEK)	0.96	ug/L	U	EPA 8260	0.96	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	591-78-6	124	2-Hexanone	0.46	ug/L	U	EPA 8260	0.46	5.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.33	ug/L	U	EPA 8260	0.33	5.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	67-64-1	3	Acetone	4.7	ug/L	J	EPA 8260	2.2	25.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	107-13-1	8	Acrylonitrile	1.9	ug/L	U	EPA 8260	1.9	10.0	200	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	71-43-2	16	Benzene	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-97-5	28	Bromochloromethane	0.17	ug/L	U	EPA 8260	0.17	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-27-4	29	Bromodichloromethane	0.18	ug/L	U	EPA 8260	0.18	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-25-2	30	Bromoform	0.26	ug/L	U	EPA 8260	0.26	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-83-9	136	Bromomethane	0.29	ug/L	U	EPA 8260	0.29	2.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-15-0	35	Carbon disulfide	1.2	ug/L	U	EPA 8260	1.2	2.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	56-23-5	36	Carbon tetrachloride	0.25	ug/L	U	EPA 8260	0.25	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-90-7	39	Chlorobenzene	0.23	ug/L	U	EPA 8260	0.23	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-00-3	41	Chloroethane	0.54	ug/L	U	EPA 8260	0.54	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	67-66-3	44	Chloroform	0.14	ug/L	U	EPA 8260	0.14	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-87-3	137	Chloromethane	0.11	ug/L	U	EPA 8260	0.11	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	156-59-2	78	cis-1,2-Dichloroethene	0.19	ug/L	U	EPA 8260	0.19	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	10061-01-5	86	cis-1,3-Dichloropropene	0.13	ug/L	U	EPA 8260	0.13	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	124-48-1	66	Dibromochloromethane	0.21	ug/L	U	EPA 8260	0.21	1.0	3	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-95-3	139	Dibromomethane	0.21	ug/L	U	EPA 8260	0.21	1.0	10	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	100-41-4	110	Ethylbenzene	0.30	ug/L	U	EPA 8260	0.30	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	74-88-4	142	Iodomethane	0.32	ug/L	U	EPA 8260	0.32	5.0	10	1	09/13/2011		09/16/2011	12

Table 3
Analytical Data and Field Parameters—September 2011
Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-TRIPBLANK	SW359	359	m&p-Xylene	0.66	ug/L	U	EPA 8260	0.66	2.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-09-2	140	Methylene Chloride	0.97	ug/L	U	EPA 8260	0.97	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	96-47-6	408	o-Xylene	0.23	ug/L	U	EPA 8260	0.23	1.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	100-42-5	186	Styrene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	127-18-4	192	Tetrachloroethene	0.46	ug/L	U	EPA 8260	0.46	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	109-99-9	458	Tetrahydrofuran	3.1	ug/L	U	EPA 8260	3.1	10.0	NE	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-88-3	196	Toluene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	156-60-5	79	trans-1,2-Dichloroethene	0.49	ug/L	U	EPA 8260	0.49	1.0	5	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	10061-02-6	87	trans-1,3-Dichloropropene	0.26	ug/L	U	EPA 8260	0.26	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	110-57-6	73	trans-1,4-Dichloro-2-butene	1.0	ug/L	U	EPA 8260	1.0	1.0	100	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	79-01-6	201	Trichloroethene	0.47	ug/L	U	EPA 8260	0.47	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-69-4	203	Trichlorofluoromethane	0.20	ug/L	U	EPA 8260	0.20	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	108-05-4	210	Vinyl acetate	0.35	ug/L	U	EPA 8260	0.35	2.0	50	1	09/13/2011		09/16/2011	12
100-02	10002-TRIPBLANK	75-01-4	211	Vinyl chloride	0.62	ug/L	U	EPA 8260	0.62	1.0	1	1	09/13/2011		09/16/2011	12

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
4. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the 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. A blank cell indicates that there is no qualifier associated with the reported result.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "MDL" is the method detection limit which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "MRL" is the method reporting limit which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
9. "DILUTION FACTOR" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "EXTRACTION DATE" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
12. "ANALYSIS DATE" is the date on which the sample was analyzed by the lab.
13. "NE" means Not Established. Blank cells indicate that there is no information relevant to the respective row.
14. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard, Interim Maximum Allowable Concentrations (IMAC) or 2B Standard.
15. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
16. 2B Standard is from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).

Table 4
Solid Waste Section Limit Exceedances Notification
Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey 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
100-02	10002-MWH	7440-39-3	15	Barium	105	ug/L		EPA 6010	5	5.0	100	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-89-6	340	Iron	**3,250**	ug/L		EPA 6010	50	50.0	300	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-96-5	342	Manganese	**407**	ug/L		EPA 6010	5	5.0	50	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWH	7439-97-6	132	Mercury	0.69	ug/L		EPA 7470	0.1	0.20	0.2	1	09/14/2011	09/19/2011	09/26/2011	40
100-02	10002-MWH	7440-66-6	213	Zinc	14.1	ug/L		EPA 6010	10	10.0	10	1	09/14/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7439-96-5	342	Manganese	**53.1**	ug/L		EPA 6010	5	5.0	50	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	7440-66-6	213	Zinc	11.7	ug/L		EPA 6010	10	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWI	75-69-4	203	Trichlorofluoromethane	1.6	ug/L		EPA 8260	0.2	1.0	1	1	09/13/2011		09/16/2011	12
100-02	10002-MWJ	7440-50-8	54	Copper	12.8	ug/L		EPA 6010	5	5.0	10	1	09/13/2011	09/19/2011	09/21/2011	40
100-02	10002-MWJ	7440-66-6	213	Zinc	19.5	ug/L		EPA 6010	10	10.0	10	1	09/13/2011	09/19/2011	09/21/2011	40

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
4. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the 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. A blank cell indicates that there is no qualifier associated with the reported result.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "MDL" is the method detection limit which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "MRL" is the method reporting limit which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
9. "DILUTION FACTOR" is reported as a single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "EXTRACTION DATE" is the date on which the sample was prepared/extracted for analysis. If no extraction date is listed then no separate preparation/extraction was required for analysis.
12. "ANALYSIS DATE" is the date on which the sample was analyzed by the lab.
13. Blank cells indicate that there is no information relevant to the respective row.
14. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard or Interim Maximum Allowable Concentrations (IMAC).
15. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).

Table 5
Water Quality Standard Exceedances Notification
Yancey-Mitchell County Inactive Construction and Demolition Debris Landfill, Yancey County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	GROUNDWATER QUALITY STANDARD	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	COLLECT DATE	ANALYSIS DATE	CAUSE AND SIGNIFICANCE
100-02	10002-MWH	7439-89-6	340	Iron	300	**3,250**	ug/L		EPA 6010	50	50.0	300	09/14/2011	09/21/2011	Possibly naturally occurring. Turbidity of sample at 0.63 NTU.
100-02	10002-MWH	7439-96-5	342	Manganese	50	**407**	ug/L		EPA 6010	5	5.0	50	09/14/2011	09/21/2011	
100-02	10002-MWH	7440-62-2	209	Vanadium	0.3	**5.4**	ug/L	*J*	EPA 6010	5	5.0	25	09/14/2011	09/21/2011	
100-02	10002-MWH	SW320	320	pH	6.5 - 8.5	**5.74**	SU						09/14/2011		Consistent with historic readings.
100-02	10002-MWI	7439-96-5	342	Manganese	50	**53.1**	ug/L		EPA 6010	5	5.0	50	09/13/2011	09/21/2011	Possibly naturally occurring. Turbidity of sample at 0.51 NTU.
100-02	10002-MWI	SW320	320	pH	6.5 - 8.5	**5.80**	SU						09/13/2011		Consistent with historic readings.

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "GROUNDWATER QUALITY STANDARD" refers to the 2L Standard or Interim Maximum Allowable Concentrations (IMAC).
4. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (last amended on January 1, 2010).
5. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard or IMAC.
6. "RESULT" is analytical data reported by the laboratory in units of micrograms per liter (µg/L) or milligrams per liter (mg/L).
7. Qualifiers in non-italicized (roman type) text are laboratory data qualifiers or "flags". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is 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. A blank cell indicates that there is no qualifier associated with the reported result.
8. "METHOD" is the analytical method used to analyze the constituents.
9. "MDL" is the method detection limit which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
10. "MRL" is the method reporting limit which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
11. "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.
12. "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.
13. "COLLECT DATE" is the date on which the sample was collected in the field.
14. "ANALYSIS DATE" is the date on which the sample was analyzed by the lab.
15. Blank cells indicate that there is no information relevant to the respective row.

APPENDICES

APPENDIX A

SAMPLING LOGS
AND
EQUIPMENT CALIBRATION DATA SHEETS

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

Well Sampling Log

PROJECT NAME: Yancey/Mitchell Co. Landfill
PROJECT NUMBER: 2119
SAMPLING PERSONNEL: E. Yurkovich/P. Brooks

DATE: 9/13/2011 + 9/14/2011
WEATHER: Sunny 70°
SAMPLE TIME: 930

WELL NUMBER: MW-H
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT (STICK-UP)
COMMENTS: Bailed well dry on 9/13 after purging 2.5 gallons. Collect sample on 9/14

WELL DEPTH IN FEET (WD): 64.30
WATER LEVEL IN FEET (WL): 54.04
LENGTH OF WATER COLUMN: 10.26 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.74 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.23 GALLONS
ACTUAL VOLUME PURGED: 3.5 GALLONS

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

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

	READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
9/13	1	1203	initial	13.93	218	8.17	5.36	-147.7	11.24	
9/13	2	1207	1.75	13.50	226	6.98	5.28	-170.3	90.83	
9/14	3	930	3.5	13.41	260	6.24	5.74	-123.4	0.63	
	4									
	5									
	6									
	7									
	8									
	9									
	10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC	1	TDS
250 mL PLASTIC	4	Appendix I Metals, Mn, Fe, Chloride, Sulfate, Alkalinity
125 mL PLASTIC		
40 mL GLASS	3	Appendix I VOCs
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] Date: 9/14/11

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

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

Low-Flow Sampling Log

PROJECT NAME: Yancey/Mitchell Co. Landfill — PROJECT NUMBER: 2119
LOCATION: Yancey Co., NC — DATE: 9/13/2011
SAMPLING PERSONNEL: E. Yurkovich/P. Brooks — WEATHER: Sunny 70°

Well ID:	MW-I		Arrive at Well:	1043
Screen Interval:	64-79	bgs	Start Time:	1057
Depth to Water:	68.59	toc	Sample Time:	1119
Stickup:	2.0		Finish Sample Time:	1131
Depth of Pump Intake:	74	toc	Leave Well:	1146
Drawdown Set:	68.79	toc	Well Diameter:	2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1101	68.74	14.31	63	12.71	6.84	-137.6	5.28
1104	68.78	14.48	62	10.97	6.83	-158.3	0.73
1107	68.79	13.45	63	9.23	6.26	-170.7	0.58
1110	68.79	13.42	62	8.48	5.82	-177.4	1.88
1113	68.79	13.37	62	8.30	5.82	-179.3	1.41
1116	68.79	13.42	63	8.26	5.82	-180.7	0.00
1119	68.79	13.47	63	8.17	5.80	-181.6	0.51

Time between recharge during sample collection: 10 Secs @ 30PM

Sampling Personnel Signature: Date: 9/13/11

NOTES:

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

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

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

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Low-Flow Sampling Log

PROJECT NAME: Yancey/Mitchell Co. Landfill	PROJECT NUMBER: 2119
LOCATION: Yancey Co., NC	DATE: 9/13/2011
SAMPLING PERSONNEL: E. Yurkovich/P. Brooks	WEATHER: Fog, 65°

Well ID:	MW-J	Arrive at Well:	915
Screen Interval:	179.5 - 194.5 bgs	Start Time:	933
Depth to Water:	150.88 toc	Sample Time:	1000
Stickup:	2.3	Finish Sample Time:	1013
Depth of Pump Intake:	180.5 toc	Leave Well:	1030
Drawdown Set:	156.75 toc	Well Diameter:	2"

COMMENTS:

Simulate low flow w/ Mega Monsoon Purge pump.

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
936	154.90	12.77	240	18.92	13.63	-150.2	6.61
939	156.58	13.28	243	17.87	12.69	-159.6	2.35
942	156.75	13.48	247	7.36	7.55	-178.1	0.54
945	156.75	13.76	251	7.50	7.46	-179.4	0.00
948	156.75	13.80	262	7.06	7.50	-180.2	0.00
951	156.75	13.82	262	6.71	7.46	-183.6	0.00
954	156.75	14.00	266	6.56	7.43	-185.3	0.00
957	156.75	14.17	267	6.52	7.37	-185.9	0.00
1000	156.75	14.20	265	6.46	7.38	-186.1	0.00

Time between recharge during sample collection: NA

Sampling Personnel Signature: Date: 9/15/11

NOTES:

STABILIZATION

3 successive readings, 3 minutes apart:

within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP

from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures*, April 1996

bgs = below ground surface

toc = top of casing

°C = degrees Celsius

µS = micro-Siemen

DO = dissolved oxygen

mg/L = milligrams per liter

S.U. = standard units

ORP = oxidation reduction potential

mV = millivolt

NTU = nephelometric turbidity units

Samples are analyzed immediately upon collection.

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Surface Water Sampling Log

PROJECT NAME: Yancey/Mitchell Co. LF
PROJECT NUMBER: 2119
SAMPLING PERSONNEL: E. Yurkovich/P. Brooks

DATE: 9/13/2011
WEATHER: Sunny 75°

SAMPLE NAME: SW-1

COMMENTS: Upstream water sample, located beneath Route 80 Bridge near entrance to landfill

Sample time: 1405

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

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1405	20.00	137	7.85	6.78	-74.7	0.00	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC	1	TDS
250 mL PLASTIC	4	Appendix I Metals, Mn, Fe, Chloride, Sulfate, Alkalinity
125 mL PLASTIC		
40 mL GLASS	3	Appendix I VOCs
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: [signature] Date: 9/13/11

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

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Surface Water Sampling Log

PROJECT NAME: Yancey/Mitchell Co. LF
DATE: 9/13/2011
PROJECT NUMBER: 2119
WEATHER: Sunny 75°
SAMPLING PERSONNEL: E. Yurkovich/P. Brooks

SAMPLE NAME: SW-2

COMMENTS: Downstream Surface water sample, located at the end of Lindsey Road, across RR tracks.

Sample time: 1435

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

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1435	21.03	98	6.24	6.93	-66.7	0.00	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC	1	TDS
250 mL PLASTIC	4	Appendix I Metals, Mn, Fe, Chloride, Sulfate, Alkalinity
125 mL PLASTIC		
40 mL GLASS	3	Appendix I VOCs
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: Good

Sampling Personnel Signature: Date: 9/13/11

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Yancey/Mitchell Co. LF	***Calibration Documentation***
Project Number: 2119	Person Conducting Calibration: E. Yurkovich
Project Location: Yancey Co., NC	Date of Calibration: 9/13/2011
	Date of Field Measurements: 9/13/2011

Equipment Documentation

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	9/13/11
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
August 2013	200601045	Initial: 1.05	Initial: 9.77	Initial: 732.7
		Cal: 0.01	Cal: 9.94	Cal:
		Time: 743	Time: 744	Time: 745

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 3.58	Cal: 7.53	mmHg: 707.4	Time: 714			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 4.04	pHmV:	Cal: 7.00	pHmV:	Time: 721		June 2012
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.51	pHmV:	Cal: 3.99	pHmV:	Time: 725		August 2012
pH 10 S.U. *report to 0.1 S.U.*	Initial: 11.46	pHmV:	Cal: 10.03	pHmV:	Time: 730		Sept 2012
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 746	Meas: 7.02	Mid Day Time:	Check:	PM Time:	Check:	June 2012
Spec. Cond. 447/84/23 mS**	Initial: 424	Cal: 447	Time: 718				April 2012
QC* 84 mS	AM Time: 712	Meas: 84	Mid Day Time:	Check:	PM Time:	Check:	April 2012
ORP 200 mV	Initial: 196.4	Cal: 200.0	Time: 734				Oct 2011

Comments:

Signature: Date: 9/13/11

Notes:

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

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Equipment Documentation & Instrument Calibration Data Sheet

	Calibration Documentation
Project Name: Yancey/Mitchell Co. LF	Person Conducting Calibration: E. Yurkanich
Project Number: 2119	Date of Calibration: 9/14/11
Project Location: Yancey Co., NC	Date of Field Measurements: 9/14/11

Equipment Documentation

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	9/14/11
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
August 2013	200601045	Initial: 0.00	Initial: 7.12	Initial: 71100
		Cal: 0.02	Cal: 10.07	Cal: 1006
		Time: 755	Time: 756	Time: 757

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
	Instrument Readings						Calibration Expiration Date
Dissolved Oxygen	Initial: 4.46	Cal: 8.16	mmHg: 737.1	Time: 733			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 6.95	pHmV:	Cal: 7.00	pHmV:	Time: 740		June 2012
pH 4 S.U. *report to 0.1 S.U.*	Initial: 3.88	pHmV:	Cal: 4.00	pHmV:	Time: 749		Aug 2012
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.46	pHmV:	Cal: 10.06	pHmV:	Time: 752		Sept 2012
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 758	Meas: 7.07	Mid Day Time:	Check:	PM Time:	Check:	June 2012
Spec. Cond. 447/84/23 mS**	Initial: 438	Cal: 447	Time: 737				April 2012
QC* 84 mS	AM Time: 801	Meas: 85	Mid Day Time:	Check:	PM Time:	Check:	April 2012
ORP 200 mV	Initial: 200.8	Cal: 200.0	Time: 755				Oct 2011

Comments:

Signature: Date: 9/14/11

Notes:

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

APPENDIX B

LABORATORY ANALYTICAL REPORTS

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

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

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

October 17, 2011

Mr. Stu Ryman
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Dear Mr. Ryman:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Charlotte Certification IDs

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

Asheville Certification IDs

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

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92102368001	**MW-H**	Water	09/14/11 09:30	09/14/11 14:18
92102368002	**MW-I**	Water	09/13/11 11:19	09/14/11 14:18
92102368003	**TRIP BLANK**	Water	09/13/11 00:00	09/14/11 14:18

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SAMPLE ANALYTE COUNT

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92102368001	**MW-H**	EPA 6010	SHB	17	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92102368002	**MW-I**	EPA 6010	SHB	17	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92102368003	**TRIP BLANK**	EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: MW-H **Lab ID: 92102368001** Collected: 09/14/11 09:30 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/22/11 17:24	7440-38-2	
Barium	**105**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:13	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:13	7440-43-9	
Chromium	**9.4**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-48-4	
Copper	**6.2**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-50-8	
Iron	**3250**	ug/L	50.0	50.0	1	09/19/11 10:25	09/21/11 22:13	7439-89-6	
Lead	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7439-92-1	
Manganese	**407**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7439-96-5	
Nickel	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:13	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	09/19/11 10:25	09/21/11 22:13	7440-28-0	
Vanadium	**5.4**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:13	7440-62-2	
Zinc	**14.1**	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:13	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.69**	ug/L	0.20	0.10	1	09/19/11 12:10	09/26/11 14:40	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**3.7J**	ug/L	25.0	2.2	1		09/16/11 09:43	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 09:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 09:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 09:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 09:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 09:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 09:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 09:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 09:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 09:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 09:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 09:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 09:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 09:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 09:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 09:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 09:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 09:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 09:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 09:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 09:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 09:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 09:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 09:43	75-35-4	

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: MW-H **Lab ID: 92102368001** Collected: 09/14/11 09:30 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 09:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 09:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 09:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 09:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 09:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 09:43	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 09:43	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 09:43	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 09:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 09:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 09:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 09:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 09:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 09:43	127-18-4	
Tetrahydrofuran	**27.4**	ug/L	10.0	3.1	1		09/16/11 09:43	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 09:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 09:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 09:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 09:43	79-01-6	
Trichlorofluoromethane	**0.20J**	ug/L	1.0	0.20	1		09/16/11 09:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 09:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 09:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 09:43	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 09:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 09:43	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		09/16/11 09:43	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		09/16/11 09:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/16/11 09:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/16/11 09:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**39.6**	mg/L	5.0	5.0	1		09/22/11 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**157**	mg/L	25.0	25.0	1		09/15/11 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**37.5**	mg/L	5.0	5.0	1		09/23/11 18:21	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**13.8**	mg/L	5.0	5.0	1		09/25/11 14:18	16887-00-6	

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: MW-I **Lab ID: 92102368002** Collected: 09/13/11 11:19 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/22/11 17:27	7440-38-2	
Barium	**51.2**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:17	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-50-8	
Iron	**128**	ug/L	50.0	50.0	1	09/19/11 10:25	09/21/11 22:17	7439-89-6	
Lead	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7439-92-1	
Manganese	**53.1**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7439-96-5	
Nickel	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:17	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	09/19/11 10:25	09/21/11 22:17	7440-28-0	
Vanadium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:17	7440-62-2	
Zinc	**11.7**	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:17	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/19/11 12:10	09/26/11 14:43	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		09/16/11 10:08	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 10:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 10:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 10:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 10:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 10:08	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 10:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 10:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 10:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 10:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 10:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 10:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 10:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 10:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 10:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 10:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 10:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 10:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 10:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 10:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 10:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 10:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 10:08	75-35-4	

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: MW-I **Lab ID: 92102368002** Collected: 09/13/11 11:19 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 10:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 10:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 10:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 10:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 10:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:08	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 10:08	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 10:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 10:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 10:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 10:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 10:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 10:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 10:08	127-18-4	
Tetrahydrofuran	**10J**	ug/L	10.0	3.1	1		09/16/11 10:08	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 10:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 10:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 10:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 10:08	79-01-6	
Trichlorofluoromethane	**1.6**	ug/L	1.0	0.20	1		09/16/11 10:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 10:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 10:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 10:08	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 10:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 10:08	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/16/11 10:08	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		09/16/11 10:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		09/16/11 10:08	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		09/16/11 10:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**14.6**	mg/L	5.0	5.0	1		09/22/11 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		09/15/11 19:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	5.0	5.0	1		09/23/11 18:35	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		09/25/11 14:18	16887-00-6	

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: TRIP BLANK **Lab ID: 92102368003** Collected: 09/13/11 00:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.7J**	ug/L	25.0	2.2	1		09/16/11 10:34	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 10:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 10:34	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 10:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 10:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 10:34	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 10:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 10:34	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 10:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 10:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 10:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 10:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 10:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 10:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 10:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 10:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 10:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 10:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 10:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 10:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 10:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 10:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 10:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 10:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 10:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 10:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 10:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 10:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:34	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 10:34	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 10:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 10:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 10:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 10:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 10:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 10:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 10:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/16/11 10:34	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 10:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 10:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 10:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 10:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/16/11 10:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 10:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 10:34	108-05-4	

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ANALYTICAL RESULTS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

Sample: TRIP BLANK **Lab ID: 92102368003** Collected: 09/13/11 00:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 10:34	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 10:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 10:34	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/16/11 10:34	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		09/16/11 10:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/16/11 10:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/16/11 10:34	2037-26-5	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: MPRP/9064
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 660854
Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	09/21/11 20:51	
Arsenic	ug/L	ND	5.0	09/21/11 20:51	
Barium	ug/L	ND	5.0	09/21/11 20:51	
Beryllium	ug/L	ND	1.0	09/21/11 20:51	
Cadmium	ug/L	ND	1.0	09/21/11 20:51	
Chromium	ug/L	ND	5.0	09/21/11 20:51	
Cobalt	ug/L	ND	5.0	09/21/11 20:51	
Copper	ug/L	ND	5.0	09/21/11 20:51	
Iron	ug/L	ND	50.0	09/21/11 20:51	
Lead	ug/L	ND	5.0	09/21/11 20:51	
Manganese	ug/L	ND	5.0	09/21/11 20:51	
Nickel	ug/L	ND	5.0	09/21/11 20:51	
Selenium	ug/L	ND	10.0	09/21/11 20:51	
Silver	ug/L	ND	5.0	09/21/11 20:51	
Thallium	ug/L	ND	5.4	09/21/11 20:51	
Vanadium	ug/L	ND	5.0	09/21/11 20:51	
Zinc	ug/L	ND	10.0	09/21/11 20:51	

LABORATORY CONTROL SAMPLE: 660855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	492	98	80-120	
Barium	ug/L	500	489	98	80-120	
Beryllium	ug/L	500	526	105	80-120	
Cadmium	ug/L	500	516	103	80-120	
Chromium	ug/L	500	525	105	80-120	
Cobalt	ug/L	500	509	102	80-120	
Copper	ug/L	500	495	99	80-120	
Iron	ug/L	5000	5140	103	80-120	
Lead	ug/L	500	503	101	80-120	
Manganese	ug/L	500	530	106	80-120	
Nickel	ug/L	500	514	103	80-120	
Selenium	ug/L	500	485	97	80-120	
Silver	ug/L	250	263	105	80-120	
Thallium	ug/L	500	484	97	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	524	105	80-120	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

MATRIX SPIKE SAMPLE: 660856

Parameter	Units	92102244001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	310	62	75-125	M1
Arsenic	ug/L	ND	500	466	92	75-125	
Barium	ug/L	465	500	970	101	75-125	
Beryllium	ug/L	4.4	500	487	97	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	240	500	714	95	75-125	
Cobalt	ug/L	19.6	500	479	92	75-125	
Copper	ug/L	32.4	500	489	91	75-125	
Iron	ug/L	20300	5000	26400	120	75-125	
Lead	ug/L	14.1	500	438	85	75-125	
Manganese	ug/L	972	500	1440	93	75-125	
Nickel	ug/L	160	500	611	90	75-125	
Selenium	ug/L	ND	500	442	88	75-125	
Silver	ug/L	ND	250	244	98	75-125	
Thallium	ug/L	ND	500	421	84	75-125	
Vanadium	ug/L	17.8	500	486	94	75-125	
Zinc	ug/L	89.3	500	575	97	75-125	

SAMPLE DUPLICATE: 660857

Parameter	Units	92102244002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	53.5	54.5	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	5.0	ND		25	
Iron	ug/L	250	218	14	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	29.8	30.6	3	25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: MERP/3746 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 661235 | Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/26/11 11:15	

LABORATORY CONTROL SAMPLE: 661236

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: 661237 661238

Parameter	Units	92102490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	88	88	75-125	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 661239 661240

Parameter	Units	92102490002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.1	86	84	75-125	2	25	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: MSV/16684 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92102368001, 92102368002, 92102368003

METHOD BLANK: 659871 Matrix: Water
Associated Lab Samples: 92102368001, 92102368002, 92102368003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/16/11 06:18	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
2-Butanone (MEK)	ug/L	ND	5.0	09/16/11 06:18	
2-Hexanone	ug/L	ND	5.0	09/16/11 06:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/16/11 06:18	
Acetone	ug/L	ND	25.0	09/16/11 06:18	
Acrylonitrile	ug/L	ND	10.0	09/16/11 06:18	
Benzene	ug/L	ND	1.0	09/16/11 06:18	
Bromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromodichloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromoform	ug/L	ND	1.0	09/16/11 06:18	
Bromomethane	ug/L	ND	2.0	09/16/11 06:18	
Carbon disulfide	ug/L	ND	2.0	09/16/11 06:18	
Carbon tetrachloride	ug/L	ND	1.0	09/16/11 06:18	
Chlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
Chloroethane	ug/L	ND	1.0	09/16/11 06:18	
Chloroform	ug/L	ND	1.0	09/16/11 06:18	
Chloromethane	ug/L	ND	1.0	09/16/11 06:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
Dibromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Dibromomethane	ug/L	ND	1.0	09/16/11 06:18	
Ethylbenzene	ug/L	ND	1.0	09/16/11 06:18	
Iodomethane	ug/L	ND	5.0	09/16/11 06:18	
m&p-Xylene	ug/L	ND	2.0	09/16/11 06:18	
Methylene Chloride	ug/L	ND	1.0	09/16/11 06:18	
o-Xylene	ug/L	ND	1.0	09/16/11 06:18	
Styrene	ug/L	ND	1.0	09/16/11 06:18	
Tetrachloroethene	ug/L	ND	1.0	09/16/11 06:18	
Tetrahydrofuran	ug/L	ND	10.0	09/16/11 06:18	
Toluene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

METHOD BLANK: 659871 Matrix: Water

Associated Lab Samples: 92102368001, 92102368002, 92102368003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	09/16/11 06:18	
Trichloroethene	ug/L	ND	1.0	09/16/11 06:18	
Trichlorofluoromethane	ug/L	ND	1.0	09/16/11 06:18	
Vinyl acetate	ug/L	ND	2.0	09/16/11 06:18	
Vinyl chloride	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane-d4 (S)	%	113	70-130	09/16/11 06:18	
4-Bromofluorobenzene (S)	%	94	70-130	09/16/11 06:18	
Dibromofluoromethane (S)	%	117	70-130	09/16/11 06:18	
Toluene-d8 (S)	%	101	70-130	09/16/11 06:18	

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	42.6	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1-Dichloroethane	ug/L	50	43.2	86	70-130	
1,1-Dichloroethene	ug/L	50	42.8	86	70-132	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
2-Butanone (MEK)	ug/L	100	99.0	99	70-145	
2-Hexanone	ug/L	100	92.9	93	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.4	92	70-140	
Acetone	ug/L	100	100	100	50-175	
Acrylonitrile	ug/L	250	225	90	70-143	
Benzene	ug/L	50	47.1	94	70-130	
Bromochloromethane	ug/L	50	45.6	91	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	43.1	86	70-130	
Bromomethane	ug/L	50	41.1	82	54-130	
Carbon disulfide	ug/L	50	48.7	97	70-131	
Carbon tetrachloride	ug/L	50	46.0	92	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	42.4	85	64-134	
Chloroform	ug/L	50	45.2	90	70-130	
Chloromethane	ug/L	50	41.6	83	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dibromomethane	ug/L	50	47.3	95	70-131	
Ethylbenzene	ug/L	50	50.8	102	70-130	
Iodomethane	ug/L	100	109	109	49-180	
m&p-Xylene	ug/L	100	106	106	70-130	
Methylene Chloride	ug/L	50	50.2	100	63-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Tetrahydrofuran	ug/L	500	458	92	70-130	
Toluene	ug/L	50	47.8	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.8	90	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	61.5	123	70-141	
Trichloroethene	ug/L	50	51.9	104	70-130	
Trichlorofluoromethane	ug/L	50	42.5	85	62-133	
Vinyl acetate	ug/L	100	81.9	82	66-157	
Vinyl chloride	ug/L	50	44.5	89	69-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659873 659874

Parameter	Units	92102363004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.3	52.1	111	104	70-166	6	30	
Benzene	ug/L	3.7	50	50	55.7	54.2	104	101	70-148	3	30	
Chlorobenzene	ug/L	11.1	50	50	61.3	59.6	100	97	70-146	3	30	
Toluene	ug/L	0.59J	50	50	52.7	50.8	104	100	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	47.2	45.5	94	91	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						109	108	70-130			
4-Bromofluorobenzene (S)	%						91	91	70-130			
Dibromofluoromethane (S)	%						112	111	70-130			
Toluene-d8 (S)	%						95	95	70-130			

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: WET/17962 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 662274 | Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/22/11 13:00	

LABORATORY CONTROL SAMPLE: 662275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	90-110	

SAMPLE DUPLICATE: 662276

Parameter	Units	92102438002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	57.3	58.3	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: WET/17912
Analysis Method: SM 2540C
QC Batch Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 660481
Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/15/11 18:58	

LABORATORY CONTROL SAMPLE: 660482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	80-120	

SAMPLE DUPLICATE: 660483

Parameter	Units	92102139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	226	232	3	10	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: WETA/10590
Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 663106
Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	09/23/11 16:33	

LABORATORY CONTROL SAMPLE: 663107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.8	99	90-110	

MATRIX SPIKE SAMPLE: 663108

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	19.0	20	19.6	3	90-110	M1

MATRIX SPIKE SAMPLE: 663110

Parameter	Units	92102377003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	11.7	20	11.6	0	90-110	M1

SAMPLE DUPLICATE: 663109

Parameter	Units	92102218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	19.0	19.5	3	20	

SAMPLE DUPLICATE: 663111

Parameter	Units	92102377003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	11.7	11.9	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

QC Batch: WETA/10602 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92102368001, 92102368002

METHOD BLANK: 664044 | Matrix: Water
Associated Lab Samples: 92102368001, 92102368002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	09/25/11 14:08	

LABORATORY CONTROL SAMPLE: 664045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	

MATRIX SPIKE SAMPLE: 664046

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.8	20	27.0	106	75-125	

SAMPLE DUPLICATE: 664047

Parameter	Units	92102556018 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	97.4	95.4	2	20	

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QUALIFIERS

Project: Yancey LF MW -H/I 09/13
Pace Project No.: 92102368

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Altamont Environmental
Client Project ID: Yancey LF MW -H/I 09/13
Client PO#:

Pace Project Manager: Lorri Patton
Phone 1(828)254-7176
lorri.patton@pacelabs.com
Pace Analytical Project ID: 92102368
Samples Received: September 14, 2011 02:18 PM
Estimated Completion: September 28, 2011

CC:

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
MW-H	92102368001	Water	09/14/11 09:30	2320B Alkalinity
				2540C Total Dissolved Solids
				300.0 IC Anions 28 Days
				4500 Chloride
				6010 ICP Groundwater
				Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
				6010 MET ICP
				Iron, Manganese
				7470 Mercury
				8260 MSV Low Level Landfill
MW-I	92102368002	Water	09/13/11 11:19	2320B Alkalinity
				2540C Total Dissolved Solids
				300.0 IC Anions 28 Days
				4500 Chloride
				6010 ICP Groundwater
				Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
				6010 MET ICP
				Iron, Manganese
				7470 Mercury
				8260 MSV Low Level Landfill
TRIP BLANK	92102368003	Water	09/13/11 00:00	8260 MSV Low Level Landfill

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1503091

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To:
Purchase Order No.:
Project Name: 219 Yancey Co. LF
Project Number: 219 Bal

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Attarmont
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Requested Analysis Filtered (Y/N): Appendix I VOCs low level; Appendix I Metals; Mn, Fe; Alkalinity; TDS; Chloride, Sulfate

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Appendix I VOCs low level	Appendix I Metals	Mn, Fe	Alkalinity	TDS	Chloride, Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92102368)
1	MW-H	WT	G			9/14/11	930	13	8	X		X	X					X	X	X	X	X	X		92102368001
2	MW-I	WT	G			9/13/11	1119	13	8	X		X	X					X	X	X	X	X	X		92102368002
3	TRIP BLANK LAB								2				X					X							92102368003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	Evan Yurkanch / Attarmont	9/14/11	1418	[signature]	9/14/11	1418	1.8	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evan Yurkanch

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/14/11

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

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: July 20, 2011 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.06	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92102368

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

Temp Correction Factor: Add / Subtract 0.7 C

Corrected Cooler Temp.: 1.8 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: DW 9/14/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: LP Date: 9/15/11 **SRF Review:** LP Date: 9/15/11

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

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October 18, 2011

Mr. Stu Ryman
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Dear Mr. Ryman:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Charlotte Certification IDs

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

Asheville Certification IDs

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

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SAMPLE SUMMARY

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92102366001	**MW-J**	Water	09/13/11 10:00	09/14/11 14:18

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SAMPLE ANALYTE COUNT

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92102366001	**MW-J**	EPA 6010	SHB	17	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A

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ANALYTICAL RESULTS

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Sample: MW-J **Lab ID: 92102366001** Collected: 09/13/11 10:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-36-0	
Arsenic	**5.9**	ug/L	5.0	5.0	1	09/19/11 10:25	09/22/11 17:11	7440-38-2	
Barium	**13.9**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:10	7440-43-9	
Chromium	**5.3**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-48-4	
Copper	**12.8**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-50-8	
Iron	**138**	ug/L	50.0	50.0	1	09/19/11 10:25	09/21/11 22:10	7439-89-6	
Lead	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7439-92-1	
Manganese	**5.6**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7439-96-5	
Nickel	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:10	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	09/19/11 10:25	09/21/11 22:10	7440-28-0	
Vanadium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:10	7440-62-2	
Zinc	**19.5**	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/19/11 12:10	09/26/11 14:36	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.7J**	ug/L	25.0	2.2	1		09/16/11 08:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 08:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 08:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 08:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 08:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 08:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 08:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 08:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 08:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 08:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 08:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 08:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 08:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 08:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 08:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 08:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 08:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 08:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 08:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 08:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 08:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 08:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 08:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 08:52	75-35-4	

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ANALYTICAL RESULTS

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

Sample: MW-J **Lab ID: 92102366001** Collected: 09/13/11 10:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 08:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 08:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 08:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 08:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 08:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 08:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 08:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 08:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 08:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 08:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 08:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 08:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 08:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 08:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/16/11 08:52	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 08:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 08:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 08:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 08:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/16/11 08:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 08:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 08:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 08:52	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 08:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 08:52	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/16/11 08:52	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		09/16/11 08:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/16/11 08:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/16/11 08:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**54.2**	mg/L	5.0	5.0	1		09/22/11 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**240**	mg/L	25.0	25.0	1		09/15/11 19:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**14.4**	mg/L	5.0	5.0	1		09/26/11 14:02	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		09/25/11 14:17	16887-00-6	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: MPRP/9064
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92102366001

METHOD BLANK: 660854
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	09/21/11 20:51	
Arsenic	ug/L	ND	5.0	09/21/11 20:51	
Barium	ug/L	ND	5.0	09/21/11 20:51	
Beryllium	ug/L	ND	1.0	09/21/11 20:51	
Cadmium	ug/L	ND	1.0	09/21/11 20:51	
Chromium	ug/L	ND	5.0	09/21/11 20:51	
Cobalt	ug/L	ND	5.0	09/21/11 20:51	
Copper	ug/L	ND	5.0	09/21/11 20:51	
Iron	ug/L	ND	50.0	09/21/11 20:51	
Lead	ug/L	ND	5.0	09/21/11 20:51	
Manganese	ug/L	ND	5.0	09/21/11 20:51	
Nickel	ug/L	ND	5.0	09/21/11 20:51	
Selenium	ug/L	ND	10.0	09/21/11 20:51	
Silver	ug/L	ND	5.0	09/21/11 20:51	
Thallium	ug/L	ND	5.4	09/21/11 20:51	
Vanadium	ug/L	ND	5.0	09/21/11 20:51	
Zinc	ug/L	ND	10.0	09/21/11 20:51	

LABORATORY CONTROL SAMPLE: 660855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	492	98	80-120	
Barium	ug/L	500	489	98	80-120	
Beryllium	ug/L	500	526	105	80-120	
Cadmium	ug/L	500	516	103	80-120	
Chromium	ug/L	500	525	105	80-120	
Cobalt	ug/L	500	509	102	80-120	
Copper	ug/L	500	495	99	80-120	
Iron	ug/L	5000	5140	103	80-120	
Lead	ug/L	500	503	101	80-120	
Manganese	ug/L	500	530	106	80-120	
Nickel	ug/L	500	514	103	80-120	
Selenium	ug/L	500	485	97	80-120	
Silver	ug/L	250	263	105	80-120	
Thallium	ug/L	500	484	97	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	524	105	80-120	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

MATRIX SPIKE SAMPLE: 660856

Parameter	Units	92102244001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	310	62	75-125	M1
Arsenic	ug/L	ND	500	466	92	75-125	
Barium	ug/L	465	500	970	101	75-125	
Beryllium	ug/L	4.4	500	487	97	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	240	500	714	95	75-125	
Cobalt	ug/L	19.6	500	479	92	75-125	
Copper	ug/L	32.4	500	489	91	75-125	
Iron	ug/L	20300	5000	26400	120	75-125	
Lead	ug/L	14.1	500	438	85	75-125	
Manganese	ug/L	972	500	1440	93	75-125	
Nickel	ug/L	160	500	611	90	75-125	
Selenium	ug/L	ND	500	442	88	75-125	
Silver	ug/L	ND	250	244	98	75-125	
Thallium	ug/L	ND	500	421	84	75-125	
Vanadium	ug/L	17.8	500	486	94	75-125	
Zinc	ug/L	89.3	500	575	97	75-125	

SAMPLE DUPLICATE: 660857

Parameter	Units	92102244002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	53.5	54.5	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	5.0	ND		25	
Iron	ug/L	250	218	14	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	29.8	30.6	3	25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: MERP/3746
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92102366001

METHOD BLANK: 661235
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/26/11 11:15	

LABORATORY CONTROL SAMPLE: 661236

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: 661237 661238

Parameter	Units	92102490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	88	88	75-125	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 661239 661240

Parameter	Units	92102490002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.1	86	84	75-125	2	25	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: MSV/16684
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92102366001

METHOD BLANK: 659871
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/16/11 06:18	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
2-Butanone (MEK)	ug/L	ND	5.0	09/16/11 06:18	
2-Hexanone	ug/L	ND	5.0	09/16/11 06:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/16/11 06:18	
Acetone	ug/L	ND	25.0	09/16/11 06:18	
Acrylonitrile	ug/L	ND	10.0	09/16/11 06:18	
Benzene	ug/L	ND	1.0	09/16/11 06:18	
Bromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromodichloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromoform	ug/L	ND	1.0	09/16/11 06:18	
Bromomethane	ug/L	ND	2.0	09/16/11 06:18	
Carbon disulfide	ug/L	ND	2.0	09/16/11 06:18	
Carbon tetrachloride	ug/L	ND	1.0	09/16/11 06:18	
Chlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
Chloroethane	ug/L	ND	1.0	09/16/11 06:18	
Chloroform	ug/L	ND	1.0	09/16/11 06:18	
Chloromethane	ug/L	ND	1.0	09/16/11 06:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
Dibromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Dibromomethane	ug/L	ND	1.0	09/16/11 06:18	
Ethylbenzene	ug/L	ND	1.0	09/16/11 06:18	
Iodomethane	ug/L	ND	5.0	09/16/11 06:18	
m&p-Xylene	ug/L	ND	2.0	09/16/11 06:18	
Methylene Chloride	ug/L	ND	1.0	09/16/11 06:18	
o-Xylene	ug/L	ND	1.0	09/16/11 06:18	
Styrene	ug/L	ND	1.0	09/16/11 06:18	
Tetrachloroethene	ug/L	ND	1.0	09/16/11 06:18	
Tetrahydrofuran	ug/L	ND	10.0	09/16/11 06:18	
Toluene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

METHOD BLANK: 659871 Matrix: Water

Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	09/16/11 06:18	
Trichloroethene	ug/L	ND	1.0	09/16/11 06:18	
Trichlorofluoromethane	ug/L	ND	1.0	09/16/11 06:18	
Vinyl acetate	ug/L	ND	2.0	09/16/11 06:18	
Vinyl chloride	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane-d4 (S)	%	113	70-130	09/16/11 06:18	
4-Bromofluorobenzene (S)	%	94	70-130	09/16/11 06:18	
Dibromofluoromethane (S)	%	117	70-130	09/16/11 06:18	
Toluene-d8 (S)	%	101	70-130	09/16/11 06:18	

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	42.6	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1-Dichloroethane	ug/L	50	43.2	86	70-130	
1,1-Dichloroethene	ug/L	50	42.8	86	70-132	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
2-Butanone (MEK)	ug/L	100	99.0	99	70-145	
2-Hexanone	ug/L	100	92.9	93	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.4	92	70-140	
Acetone	ug/L	100	100	100	50-175	
Acrylonitrile	ug/L	250	225	90	70-143	
Benzene	ug/L	50	47.1	94	70-130	
Bromochloromethane	ug/L	50	45.6	91	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	43.1	86	70-130	
Bromomethane	ug/L	50	41.1	82	54-130	
Carbon disulfide	ug/L	50	48.7	97	70-131	
Carbon tetrachloride	ug/L	50	46.0	92	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	42.4	85	64-134	
Chloroform	ug/L	50	45.2	90	70-130	
Chloromethane	ug/L	50	41.6	83	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dibromomethane	ug/L	50	47.3	95	70-131	
Ethylbenzene	ug/L	50	50.8	102	70-130	
Iodomethane	ug/L	100	109	109	49-180	
m&p-Xylene	ug/L	100	106	106	70-130	
Methylene Chloride	ug/L	50	50.2	100	63-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Tetrahydrofuran	ug/L	500	458	92	70-130	
Toluene	ug/L	50	47.8	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.8	90	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	61.5	123	70-141	
Trichloroethene	ug/L	50	51.9	104	70-130	
Trichlorofluoromethane	ug/L	50	42.5	85	62-133	
Vinyl acetate	ug/L	100	81.9	82	66-157	
Vinyl chloride	ug/L	50	44.5	89	69-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659873 659874

Parameter	Units	92102363004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.3	52.1	111	104	70-166	6	30	
Benzene	ug/L	3.7	50	50	55.7	54.2	104	101	70-148	3	30	
Chlorobenzene	ug/L	11.1	50	50	61.3	59.6	100	97	70-146	3	30	
Toluene	ug/L	0.59J	50	50	52.7	50.8	104	100	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	47.2	45.5	94	91	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						109	108	70-130			
4-Bromofluorobenzene (S)	%						91	91	70-130			
Dibromofluoromethane (S)	%						112	111	70-130			
Toluene-d8 (S)	%						95	95	70-130			

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: WET/17962
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92102366001

METHOD BLANK: 662274
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/22/11 13:00	

LABORATORY CONTROL SAMPLE: 662275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	90-110	

SAMPLE DUPLICATE: 662276

Parameter	Units	92102438002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	57.3	58.3	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: WET/17912
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92102366001

METHOD BLANK: 660481
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/15/11 18:58	

LABORATORY CONTROL SAMPLE: 660482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	80-120	

SAMPLE DUPLICATE: 660483

Parameter	Units	92102139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	226	232	3	10	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: WETA/10590
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92102366001

METHOD BLANK: 663106
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	09/23/11 16:33	

LABORATORY CONTROL SAMPLE: 663107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.8	99	90-110	

MATRIX SPIKE SAMPLE: 663108

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	19.0	20	19.6	3	90-110	M1

MATRIX SPIKE SAMPLE: 663110

Parameter	Units	92102377003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	11.7	20	11.6	0	90-110	M1

SAMPLE DUPLICATE: 663109

Parameter	Units	92102218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	19.0	19.5	3	20	

SAMPLE DUPLICATE: 663111

Parameter	Units	92102377003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	11.7	11.9	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

QC Batch: WETA/10602
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92102366001

METHOD BLANK: 664044
Matrix: Water
Associated Lab Samples: 92102366001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	09/25/11 14:08	

LABORATORY CONTROL SAMPLE: 664045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	

MATRIX SPIKE SAMPLE: 664046

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.8	20	27.0	106	75-125	

SAMPLE DUPLICATE: 664047

Parameter	Units	92102556018 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	97.4	95.4	2	20	

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QUALIFIERS

Project: Yancey LF MW -J 09/13
Pace Project No.: 92102366

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Altamont Environmental
Client Project ID: Yancey LF MW -J 09/13
Client PO#:

Pace Project Manager: Lorri Patton
Phone 1(828)254-7176
lorri.patton@pacelabs.com
Pace Analytical Project ID: 92102366
Samples Received: September 14, 2011 02:18 PM
Estimated Completion: September 28, 2011

CC:

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
MW-J	92102366001	Water	09/13/11 10:00	2320B Alkalinity
				2540C Total Dissolved Solids
				300.0 IC Anions 28 Days
				4500 Chloride
				6010 ICP Groundwater Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
				7470 Mercury
				8260 MSV Low Level Landfill
TRIP BLANK	92102366002	Water	09/13/11 00:00	8260 MSV Low Level Landfill

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1503096

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To:
Purchase Order No.:
Project Name: Yancey Co. LF
Project Number: 0119.1201

Section C Invoice Information:

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

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Appendix I VOCs low level	Appendix I Metals	Mn, Fe	Alkalinity	TDS	Chloride, Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92102366
1	MW-1	WT	G			9/13/11	1000	14	8	X		X	X					X	X	X	X	X	X		92102366001
2	TRIP BLANK LAB →								2				X					X							92102366002
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Evan Yurkovich / Altamont	9/13/11	1418	[signature]	9/14/11	1418	1.8	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Evan Yurkovich
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/14/11

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

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: July 20, 2011 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.06	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92102366

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Temp Correction Factor: Add / Subtract 0.7 C

Corrected Cooler Temp.: 1.8 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Pac 9/14/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: LP Date: 9/15/11 **SRF Review:** LP Date: 9/15/11

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

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October 17, 2011

Mr. Stu Ryman
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Dear Mr. Ryman:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Charlotte Certification IDs

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

Asheville Certification IDs

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

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SAMPLE SUMMARY

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92102371001	**SW-1**	Water	09/13/11 14:05	09/14/11 14:18
92102371002	**SW-2**	Water	09/13/11 14:35	09/14/11 14:18
92102371003	**TRIP BLANK**	Water	09/13/11 00:00	09/14/11 14:18

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SAMPLE ANALYTE COUNT

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92102371001	**SW-1**	EPA 6010	SHB	17	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92102371002	**SW-2**	EPA 6010	SHB	17	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92102371003	**TRIP BLANK**	EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: SW-1 **Lab ID: 92102371001** Collected: 09/13/11 14:05 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/22/11 17:30	7440-38-2	
Barium	**22.6**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:20	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-50-8	
Iron	**284**	ug/L	50.0	50.0	1	09/19/11 10:25	09/21/11 22:20	7439-89-6	
Lead	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7439-92-1	
Manganese	**30.5**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7439-96-5	
Nickel	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:20	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	09/19/11 10:25	09/21/11 22:20	7440-28-0	
Vanadium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:20	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/19/11 12:10	09/26/11 14:45	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.0J**	ug/L	25.0	2.2	1		09/16/11 10:59	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 10:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 10:59	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 10:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 10:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 10:59	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 10:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 10:59	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 10:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 10:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 10:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 10:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 10:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 10:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 10:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 10:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 10:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 10:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 10:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 10:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 10:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 10:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 10:59	75-35-4	

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: SW-1 **Lab ID: 92102371001** Collected: 09/13/11 14:05 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 10:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 10:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 10:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 10:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 10:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 10:59	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 10:59	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 10:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 10:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 10:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 10:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 10:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 10:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 10:59	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/16/11 10:59	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 10:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 10:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 10:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 10:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/16/11 10:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 10:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 10:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 10:59	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 10:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 10:59	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		09/16/11 10:59	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		09/16/11 10:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/16/11 10:59	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		09/16/11 10:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**19.8**	mg/L	5.0	5.0	1		09/22/11 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**99.0**	mg/L	25.0	25.0	1		09/15/11 19:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**24.3**	mg/L	5.0	5.0	1		09/23/11 19:16	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10.3**	mg/L	5.0	5.0	1		09/25/11 14:19	16887-00-6	

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: SW-2 **Lab ID: 92102371002** Collected: 09/13/11 14:35 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/22/11 17:33	7440-38-2	
Barium	**17.2**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/19/11 10:25	09/21/11 22:23	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-50-8	
Iron	**190**	ug/L	50.0	50.0	1	09/19/11 10:25	09/21/11 22:23	7439-89-6	
Lead	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7439-92-1	
Manganese	**26.9**	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7439-96-5	
Nickel	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:23	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	09/19/11 10:25	09/21/11 22:23	7440-28-0	
Vanadium	ND	ug/L	5.0	5.0	1	09/19/11 10:25	09/21/11 22:23	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/19/11 10:25	09/21/11 22:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/19/11 12:10	09/26/11 14:48	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**5.2J**	ug/L	25.0	2.2	1		09/16/11 11:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 11:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 11:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 11:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 11:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 11:50	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 11:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 11:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 11:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 11:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 11:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 11:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 11:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 11:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 11:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 11:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 11:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 11:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 11:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 11:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 11:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 11:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 11:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 11:50	75-35-4	

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: SW-2 **Lab ID: 92102371002** Collected: 09/13/11 14:35 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 11:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 11:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 11:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 11:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 11:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 11:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 11:50	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 11:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 11:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 11:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 11:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 11:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 11:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 11:50	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/16/11 11:50	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 11:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 11:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 11:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 11:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/16/11 11:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 11:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 11:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 11:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 11:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 11:50	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/16/11 11:50	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		09/16/11 11:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/16/11 11:50	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/16/11 11:50	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**17.7**	mg/L	5.0	5.0	1		09/22/11 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**68.0**	mg/L	25.0	25.0	1		09/15/11 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**13.4**	mg/L	5.0	5.0	1		09/23/11 19:29	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**7.6**	mg/L	5.0	5.0	1		09/25/11 14:20	16887-00-6	

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: TRIP BLANK **Lab ID: 92102371003** Collected: 09/13/11 00:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.8J**	ug/L	25.0	2.2	1		09/16/11 12:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		09/16/11 12:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/16/11 12:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/16/11 12:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/16/11 12:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/16/11 12:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		09/16/11 12:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/16/11 12:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/16/11 12:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/16/11 12:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/16/11 12:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/16/11 12:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/16/11 12:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/16/11 12:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		09/16/11 12:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/16/11 12:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/16/11 12:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/16/11 12:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/16/11 12:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/16/11 12:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		09/16/11 12:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/16/11 12:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/16/11 12:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/16/11 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/16/11 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/16/11 12:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/16/11 12:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/16/11 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/16/11 12:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/16/11 12:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/16/11 12:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		09/16/11 12:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/16/11 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/16/11 12:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/16/11 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/16/11 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/16/11 12:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/16/11 12:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/16/11 12:52	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/16/11 12:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/16/11 12:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/16/11 12:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/16/11 12:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/16/11 12:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/16/11 12:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/16/11 12:52	108-05-4	

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ANALYTICAL RESULTS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

Sample: TRIP BLANK **Lab ID: 92102371003** Collected: 09/13/11 00:00 Received: 09/14/11 14:18 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/16/11 12:52	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/16/11 12:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/16/11 12:52	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		09/16/11 12:52	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		09/16/11 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		09/16/11 12:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/16/11 12:52	2037-26-5	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: MPRP/9064
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 660854
Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	09/21/11 20:51	
Arsenic	ug/L	ND	5.0	09/21/11 20:51	
Barium	ug/L	ND	5.0	09/21/11 20:51	
Beryllium	ug/L	ND	1.0	09/21/11 20:51	
Cadmium	ug/L	ND	1.0	09/21/11 20:51	
Chromium	ug/L	ND	5.0	09/21/11 20:51	
Cobalt	ug/L	ND	5.0	09/21/11 20:51	
Copper	ug/L	ND	5.0	09/21/11 20:51	
Iron	ug/L	ND	50.0	09/21/11 20:51	
Lead	ug/L	ND	5.0	09/21/11 20:51	
Manganese	ug/L	ND	5.0	09/21/11 20:51	
Nickel	ug/L	ND	5.0	09/21/11 20:51	
Selenium	ug/L	ND	10.0	09/21/11 20:51	
Silver	ug/L	ND	5.0	09/21/11 20:51	
Thallium	ug/L	ND	5.4	09/21/11 20:51	
Vanadium	ug/L	ND	5.0	09/21/11 20:51	
Zinc	ug/L	ND	10.0	09/21/11 20:51	

LABORATORY CONTROL SAMPLE: 660855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	492	98	80-120	
Barium	ug/L	500	489	98	80-120	
Beryllium	ug/L	500	526	105	80-120	
Cadmium	ug/L	500	516	103	80-120	
Chromium	ug/L	500	525	105	80-120	
Cobalt	ug/L	500	509	102	80-120	
Copper	ug/L	500	495	99	80-120	
Iron	ug/L	5000	5140	103	80-120	
Lead	ug/L	500	503	101	80-120	
Manganese	ug/L	500	530	106	80-120	
Nickel	ug/L	500	514	103	80-120	
Selenium	ug/L	500	485	97	80-120	
Silver	ug/L	250	263	105	80-120	
Thallium	ug/L	500	484	97	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	524	105	80-120	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

MATRIX SPIKE SAMPLE: 660856

Parameter	Units	92102244001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	310	62	75-125	M1
Arsenic	ug/L	ND	500	466	92	75-125	
Barium	ug/L	465	500	970	101	75-125	
Beryllium	ug/L	4.4	500	487	97	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	240	500	714	95	75-125	
Cobalt	ug/L	19.6	500	479	92	75-125	
Copper	ug/L	32.4	500	489	91	75-125	
Iron	ug/L	20300	5000	26400	120	75-125	
Lead	ug/L	14.1	500	438	85	75-125	
Manganese	ug/L	972	500	1440	93	75-125	
Nickel	ug/L	160	500	611	90	75-125	
Selenium	ug/L	ND	500	442	88	75-125	
Silver	ug/L	ND	250	244	98	75-125	
Thallium	ug/L	ND	500	421	84	75-125	
Vanadium	ug/L	17.8	500	486	94	75-125	
Zinc	ug/L	89.3	500	575	97	75-125	

SAMPLE DUPLICATE: 660857

Parameter	Units	92102244002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	53.5	54.5	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	5.0	ND		25	
Iron	ug/L	250	218	14	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	29.8	30.6	3	25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: MERP/3746 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 661235 | Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/26/11 11:15	

LABORATORY CONTROL SAMPLE: 661236

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: 661237 661238

Parameter	Units	92102490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	88	88	75-125	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 661239 661240

Parameter	Units	92102490002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.1	86	84	75-125	2	25	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: MSV/16684 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92102371001, 92102371002, 92102371003

METHOD BLANK: 659871 Matrix: Water
Associated Lab Samples: 92102371001, 92102371002, 92102371003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,1-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/16/11 06:18	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloropropane	ug/L	ND	1.0	09/16/11 06:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
2-Butanone (MEK)	ug/L	ND	5.0	09/16/11 06:18	
2-Hexanone	ug/L	ND	5.0	09/16/11 06:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/16/11 06:18	
Acetone	ug/L	ND	25.0	09/16/11 06:18	
Acrylonitrile	ug/L	ND	10.0	09/16/11 06:18	
Benzene	ug/L	ND	1.0	09/16/11 06:18	
Bromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromodichloromethane	ug/L	ND	1.0	09/16/11 06:18	
Bromoform	ug/L	ND	1.0	09/16/11 06:18	
Bromomethane	ug/L	ND	2.0	09/16/11 06:18	
Carbon disulfide	ug/L	ND	2.0	09/16/11 06:18	
Carbon tetrachloride	ug/L	ND	1.0	09/16/11 06:18	
Chlorobenzene	ug/L	ND	1.0	09/16/11 06:18	
Chloroethane	ug/L	ND	1.0	09/16/11 06:18	
Chloroform	ug/L	ND	1.0	09/16/11 06:18	
Chloromethane	ug/L	ND	1.0	09/16/11 06:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
Dibromochloromethane	ug/L	ND	1.0	09/16/11 06:18	
Dibromomethane	ug/L	ND	1.0	09/16/11 06:18	
Ethylbenzene	ug/L	ND	1.0	09/16/11 06:18	
Iodomethane	ug/L	ND	5.0	09/16/11 06:18	
m&p-Xylene	ug/L	ND	2.0	09/16/11 06:18	
Methylene Chloride	ug/L	ND	1.0	09/16/11 06:18	
o-Xylene	ug/L	ND	1.0	09/16/11 06:18	
Styrene	ug/L	ND	1.0	09/16/11 06:18	
Tetrachloroethene	ug/L	ND	1.0	09/16/11 06:18	
Tetrahydrofuran	ug/L	ND	10.0	09/16/11 06:18	
Toluene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 06:18	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

METHOD BLANK: 659871 Matrix: Water

Associated Lab Samples: 92102371001, 92102371002, 92102371003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/16/11 06:18	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	09/16/11 06:18	
Trichloroethene	ug/L	ND	1.0	09/16/11 06:18	
Trichlorofluoromethane	ug/L	ND	1.0	09/16/11 06:18	
Vinyl acetate	ug/L	ND	2.0	09/16/11 06:18	
Vinyl chloride	ug/L	ND	1.0	09/16/11 06:18	
1,2-Dichloroethane-d4 (S)	%	113	70-130	09/16/11 06:18	
4-Bromofluorobenzene (S)	%	94	70-130	09/16/11 06:18	
Dibromofluoromethane (S)	%	117	70-130	09/16/11 06:18	
Toluene-d8 (S)	%	101	70-130	09/16/11 06:18	

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	42.6	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1-Dichloroethane	ug/L	50	43.2	86	70-130	
1,1-Dichloroethene	ug/L	50	42.8	86	70-132	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
2-Butanone (MEK)	ug/L	100	99.0	99	70-145	
2-Hexanone	ug/L	100	92.9	93	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.4	92	70-140	
Acetone	ug/L	100	100	100	50-175	
Acrylonitrile	ug/L	250	225	90	70-143	
Benzene	ug/L	50	47.1	94	70-130	
Bromochloromethane	ug/L	50	45.6	91	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	43.1	86	70-130	
Bromomethane	ug/L	50	41.1	82	54-130	
Carbon disulfide	ug/L	50	48.7	97	70-131	
Carbon tetrachloride	ug/L	50	46.0	92	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	42.4	85	64-134	
Chloroform	ug/L	50	45.2	90	70-130	
Chloromethane	ug/L	50	41.6	83	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

LABORATORY CONTROL SAMPLE: 659872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dibromomethane	ug/L	50	47.3	95	70-131	
Ethylbenzene	ug/L	50	50.8	102	70-130	
Iodomethane	ug/L	100	109	109	49-180	
m&p-Xylene	ug/L	100	106	106	70-130	
Methylene Chloride	ug/L	50	50.2	100	63-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Tetrahydrofuran	ug/L	500	458	92	70-130	
Toluene	ug/L	50	47.8	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.8	90	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	61.5	123	70-141	
Trichloroethene	ug/L	50	51.9	104	70-130	
Trichlorofluoromethane	ug/L	50	42.5	85	62-133	
Vinyl acetate	ug/L	100	81.9	82	66-157	
Vinyl chloride	ug/L	50	44.5	89	69-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659873 659874

Parameter	Units	92102363004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.3	52.1	111	104	70-166	6	30	
Benzene	ug/L	3.7	50	50	55.7	54.2	104	101	70-148	3	30	
Chlorobenzene	ug/L	11.1	50	50	61.3	59.6	100	97	70-146	3	30	
Toluene	ug/L	0.59J	50	50	52.7	50.8	104	100	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	47.2	45.5	94	91	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						109	108	70-130			
4-Bromofluorobenzene (S)	%						91	91	70-130			
Dibromofluoromethane (S)	%						112	111	70-130			
Toluene-d8 (S)	%						95	95	70-130			

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: WET/17962 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 662274 | Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/22/11 13:00	

LABORATORY CONTROL SAMPLE: 662275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	90-110	

SAMPLE DUPLICATE: 662276

Parameter	Units	92102438002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	57.3	58.3	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: WET/17912 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 660481 | Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/15/11 18:58	

LABORATORY CONTROL SAMPLE: 660482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	80-120	

SAMPLE DUPLICATE: 660483

Parameter	Units	92102139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	226	232	3	10	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: WETA/10590 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 663106 | Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	09/23/11 16:33	

LABORATORY CONTROL SAMPLE: 663107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.8	99	90-110	

MATRIX SPIKE SAMPLE: 663108

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	19.0	20	19.6	3	90-110	M1

MATRIX SPIKE SAMPLE: 663110

Parameter	Units	92102377003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	11.7	20	11.6	0	90-110	M1

SAMPLE DUPLICATE: 663109

Parameter	Units	92102218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	19.0	19.5	3	20	

SAMPLE DUPLICATE: 663111

Parameter	Units	92102377003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	11.7	11.9	2	20	

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QUALITY CONTROL DATA

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

QC Batch: WETA/10602 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92102371001, 92102371002

METHOD BLANK: 664044 | Matrix: Water
Associated Lab Samples: 92102371001, 92102371002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	09/25/11 14:08	

LABORATORY CONTROL SAMPLE: 664045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	

MATRIX SPIKE SAMPLE: 664046

Parameter	Units	92102218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.8	20	27.0	106	75-125	

SAMPLE DUPLICATE: 664047

Parameter	Units	92102556018 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	97.4	95.4	2	20	

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QUALIFIERS

Project: Yancey LF SW 09/13
Pace Project No.: 92102371

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Altamont Environmental
Client Project ID: Yancey LF SW 09/13
Client PO#:

Pace Project Manager: Lorri Patton
Phone 1(828)254-7176
lorri.patton@pacelabs.com
Pace Analytical Project ID: 92102371
Samples Received: September 14, 2011 02:18 PM
Estimated Completion: September 28, 2011

CC:

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
SW-1	92102371001	Water	09/13/11 14:05	2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 28 Days 4500 Chloride 6010 ICP Groundwater Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc 6010 MET ICP Iron, Manganese 7470 Mercury 8260 MSV Low Level Landfill
SW-2	92102371002	Water	09/13/11 14:35	2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 28 Days 4500 Chloride 6010 ICP Groundwater Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc 6010 MET ICP Iron, Manganese 7470 Mercury 8260 MSV Low Level Landfill
TRIP BLANK	92102371003	Water	09/13/11 00:00	8260 MSV Low Level Landfill

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1474879

Section A Required Client Information:

Company: Altamont Environmental
Address: 231 Haywood St. Asheville NC 28801
Email To: cgilbert@altamontenvironmental.com
Phone: 828-281-3750 Fax: 828-281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Chris Gilbert
Copy To:
Purchase Order No.:
Project Name: Yancey Co. LF
Project Number: 019.1801

Section C Invoice Information:

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

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Appendix I VOCs, Lowland	Appendix I Metals	Mn, Fe	Alkalinity	TDS	Chloride, Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92102371
1	SW-1	WT	G			9/13/11	1405	0	8	X		X	X						X	X	X	X	X	X		92102371001
2	SW-2	WT	G			9/13/11	1435	21	8	X		X	X						X	X	X	X	X	X		92102371002
3	TRIP BLANK LAB								2				X						X							92102371003
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Evan Yuckovich / Altamont	9/14/11	1418	[signature]	9/14/11	1418	1.8	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evan Yuckovich

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/14/11

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

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

Pace Analytical www.pacelabs.com	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: July 20, 2011 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.06	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92102371

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Temp Correction Factor: Add / Subtract 0.7 C

Corrected Cooler Temp.: 1.8 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: DRW 9/14/11

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: LP Date: 9/15/11 SRF Review: PP Date: 9/15/11

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